AN

ACCOUNT

OF THE

TRIGONOMETRICAL SURVEY,

CARRIED ON BY ORDER OF THE

MASTER-GENERAL OF HIS MAJESTY'S ORDNANCE,

IN THE YEARS

1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, AND 1809.

BY LIEUTENANT-COLONEL WILLIAM MUDGE,

OF THE ROYAL ARTILLERY, F. R. S.

AND CAPTAIN THOMAS COLBY,

OF THE ROYAL ENGINEERS.

VOL. III.

LONDON:

PRINTED BY W. BULMER AND CO. CLEVELAND-ROW, ST. JAMES'S;
AND SOLD BY W. FADEN, GEOGRAPHER TO HIS MAJESTY,
AND TO HIS ROYAL HIGHNESS THE PRINCE OF WALES,
CHARING-CROSS.

1811.

PREFACE.

In the year 1800 a paper was presented to the public, through the medium of the Philosophical Transactions, giving an account of the Trigonometrical operations performed in 1797, 1798, and 1799. Before we enter on the particulars composing the body of the following work, it will be proper to take a short view of the state of this undertaking at different periods since the commencement of it, in the year 1791, to the state of it in the year 1799.

The first communication on the subject of this Survey was made to the Royal Society, and printed in their volume for 1795. In that account is given a detail of the whole of the operations previously performed for effectuating the initial parts of the Survey. These principally consisted of the measurements of the base lines on Hounslow Heath and Romney Marsh, joining the triangles proceeding from the former, to those of the late Major General Roy, at Fairlight Down; and intermediately at other stations, and measuring a base of verification on Salisbury Plain.

The second paper is found in the Philosophical Transactions for the year 1797. This contains the triangles carried on in the two previous years, from the base line on Salisbury Plain,

towards the west, and along the southern coast as far as the Land's End. It also gives an account, with all the particulars, of a Survey, carried on in Kent, with a new circular instrument of less dimension than those of the large theodolite, but of similar construction.

The third paper made its appearance in 1800, detailing the operations of 1797, 1798, and 1799. From this it will appear, that since the publication of the former account, the great triangles had been carried on northward as far as Bristol and Oxford; and also that a minute Survey of Essex had been made. Particulars of the measurement of a base line on Sedgemoor were also given, that base line being the fourth measured since the commencement of the Survey.

The fourth, and last communication to the Royal Society, was made in the year 1803. It consisted chiefly of an account of the measurement of an arc of the meridian, extending from Dunnose, in the Isle of Wight, to Clifton, in Yorkshire. The triangles necessary for ascertaining the distance between those stations were only given, that paper having been composed, principally, with a view to announce the conclusions derived from that operation.

From this sketch it will appear, that the Trigonometrical operations, from their commencement in 1791 to the present time, are not accounted for beyond those particulars which constitute a Survey of the southern coast, and as much of the interior as lie between it and the parallels of Oxford and Bristol. The present Work contains a large mass of Topographical matter, which, combined with that given in the accounts before published, comprizes the Trigonometrical Survey of almost all England, and the whole of Wales, with a part of Scotland.

The first Section contains the angles observed with the large theodolite, as well as the angles of elevation or depression at the several stations, and also the situations of those stations.

The second Section contains a short account of the measurement of a new base line on Rhuddlan Marsh, near St. Asaph, in North Wales, with the reduction of that base, and the calculation of the sides of the principal triangles. Of these triangles, those first given are made to depend on the side joining the stations Bow Brickhill and Lilleyhoe, and Lilleyhoe and Ledlington, (see the Philosophical Transactions for the year 1800, page 604), extending from thence to the north of Cambridgeshire, the last stations being Littleport in that county, and Brandon Warren, near Brandon, in Suffolk.

The triangles running up from Arbury Hill to Clifton Beacon, in Yorkshire, as given in the Philosophical Transactions for 1803, result from observations made immediately after the operations in Cambridgeshire ceased. Other triangles, also resulting from observations made in the same season, and uniting with the former on the eastern side, are given in this section. In this series, two stations will be found named Cropwell Bishop and Bottesford. These were chosen to connect the triangles with the extremeties of a base-line then intended to be measured, but since relinquished, Misterton Carr, in the north of Lincolnshire, proving to be a more proper spot for that operation: however, the triangles depending on these stations are given, many churches and objects of note having been observed from them, and their situations thereby ascertained. The junction between the triangles of this series, and those in Cambridgeshire, is effected by intermediate spires, among which Souldrope is the principal, and the distances—Souldrope Spire from Arbury Hill 146434 feet, from

Lilleyhoe 115863 feet, from Orwell 125908 feet, and from Ely Minster 196695 feet, may be considered as primary.

The triangles next in order, are those which proceed from a base line recently measured on Rhuddlan Marsh, branching off in all directions. A series extends from this base to Anglesea, thence, by Snowdon, down the western coast of Wales, by Cardigan Bay, joining, near Aberystwith, a series of triangles extending over South Wales, and proceeding from the triangles in Glocestershire, along the borders of the Severn and Bristol Channel, to St. David's Head, and thence up to this just mentioned point of junction. Another series, uniting with the former, proceeds southward from Rhuddlan Marsh, and joins the southern triangles in Glamorganshire, while, from the western side of this series, triangles unite with those in the central part of England. From this new base, triangles branch out towards the east, and unite with those proceeding westward from Misterton Carr, mutually verifying the sides of each series. Triangles are also carried on from this base through Lancashire, Cumberland, and Westmoreland, into Scotland, and uniting with another series, extending from Clifton Beacon, through Yorkshire and Northumberland, and the east part of Scotland, as far as the northern side of the Firth of Forth.

On examination, the triangles in this section will appear to have had only two angles observed in some cases. Had it been practicable, the instrument would, as heretofore, have been always taken to the third station; but the peculiar character of the country, where this omission has had place, prevented the performance of that measure. This, however, cannot, but in a very trifling degree, have affected the accuracy of the conclusions, as the proofs on the sides of several triangles so circum-

stanced, plainly shew. With an instrument, so excellent as that used in this Survey, except for the purpose of intersecting surrounding objects, it is, perhaps, not necessary tenaciously to adhere to the practice of observing the third angle of every triangle. The computed length of the base line on Rhuddlan Marsh, derived from the base on Hounslow Heath, differs only one foot from the length obtained by actual measurement; and the base on Misterton Carr, used in the series of triangles connecting it with Rhuddlan Marsh, gives a result equally consistent.

Section Third, contains the secondary triangles formed by the intersection of church steeples, and other remarkable objects, from the principal stations, amounting in number to six hundred and fourteen. Several of these are supplementary, or *proof* triangles, inserted for the purpose of evincing that, under those circumstances, the intersected objects are properly identified. The number of triangles in this Section might have been greatly increased, if scrupulous attention had not been paid to select intersections not likely to be erroneous.

The Fourth Section contains the triangles, principal and secondary, for the survey of the western counties. The first class of secondary triangles, under the head of this Section, proceeds from the side joining the station on the Quantock range of hills and Moorlynch, and is extended over a large part of Somersetshire, and the eastern part of Devon. The angles of these triangles were observed with the same care as those of the great triangles, staffs being generally erected over the stations. The large and small circular instruments were employed, the former when the station was on the ground, and the latter when observations were made from a tower.

The triangles next in succession, are those constituted for the Survey of the north of Devon. It must be remembered that, when the Survey was formerly carried on in the southern part of this county, the triangles could not be ran up to the northern parts from the intervention of Dartmoor. The triangles now in view, partly depend on the old sides in the east of Cornwall and partly on those in the north-west of Somersetshire.

The next class contains, the triangles for the Survey of Dartmoor and the south of Devon. These originate from the sides of the great triangles heretofore published in the Philosophical Transactions.

These articles are followed by the interior triangles constituted by the intersections of objects from the several stations previously mentioned, comprehending almost every steeple in the west of Somersetshire, all Devon, and the greatest part of Cornwall. To these are subjoined, first, the triangles for the Survey of Dorsetshire; secondly, for the Survey of Hampshire, part of Somersetshire, and part of Wiltshire; thirdly, for the Survey of the county of Sussex; fourthly, for the Survey of part of Surrey; fifthly, for the Survey of Middlesex and Hertfordshire; sixthly, for the Survey of part of Surrey and part of Berkshire; seventhly, for the Survey of part of South-Wales; eighthly, for the Survey of Cambridgeshire; ninthly, for the Survey of part of Bedfordshire and part of Buckinghamshire. This Section concludes with the particulars relating to the altitudes of the stations, and a general list of those altitudes alphabetically arranged. And here it is to be observed, that the altitudes of the stations enumerated in the former publication on this subject are again repeated, that all the deductions may be brought under one point of view.

It may not be improper, on this occasion, to observe that, the contents of this Section have been made subservient to a regular survey, performed by the Royal Military Surveyors, so that no doubt can be reasonably entertained of the Section being free from errors in bearings, or the identity of the consecutive intersections being certain.

Section the fifth, contains the reduction of the observations made on certain stars with the zenith sector, at Delamere Forest and Burleigh Moor, to the beginning of the year 1806. These observations thus reduced, combined with those formerly made on the same stars at Dunnose in the Isle of Wight gave 3° 57′ 13″,1 and 2° 36′ 12″, 2 for the amplitudes of the arcs respectively subtended by those stations and the one just mentioned.

The bearings of the stations connecting Burleigh Moor and Dunnose, and also the bearings of the stations, connecting Delamere Forest and Black Down, from the parallel to the meridians observed at each extremity of both arcs, are given in this section, from whence it has appeared, after applying the necessary corrections, that 1482852,5 feet is the length of the arc intercepted by the parallels of Burleigh Moor and Dunnose, and 925188,5 feet for the meridional arc comprehended by the stations Delamere Forest and Blackdown. The length of the degree of the meridian at the middle point between Dunnose and Burleigh Moor, lat. 52° 34′ 45″, derived from the data supplied in this article, is 60823 fathoms: the length of a degree at the middle point between Dunnose and Clifton Beacon, latitude 52° 2′ 19″, as derived from the former measurement, being 60820 fathoms: see the Philosophical Transactions for 1803, page 488. The close of the fifth Section, shows that the subtence of the arc on the meridian of Delamere Forest, reaching

from that station to Black Down in Dorsetshire, both in the heavens and on the earth, are consistent, or nearly so, with the celestial and terrestrial contents of the arcs between Burleigh Moor and Dunnose, the computed and observed difference of latitude between Dunnose and Delamere Forest, agreeing within a second.

The sixth Section contains the bearings and distances of the stations from the parallels to their respective meridians and perpendiculars, with the longitudes and latitudes deduced therefrom. The meridians to which the several stations have been so referred, are those passing through Greenwich, Clifton Beacon, Burleigh Moor, Delamere Forest, Moel Rhyddlad in Anglesea, and Blackdown. The directions of the meridians at these stations, have been observed at different periods in a careful manner, and the stations in the vicinity of each, have been referred to its respective meridian, and those midway between two meridians, have been referred to both.

The latitudes of Clifton Beacon, Burleigh Moor, and Delamere Forest are given as deduced from the observations made with the zenith sector at those stations, combined with the observation formerly made at Dunnose and Greenwich, taking 51° 28′ 40″ as the latitude of the latter. The latitude of Moel Rhyddlad has been found from that of Delamere Forest by computation. This section also contains the latitudes and longitudes (derived from the bearings and distances) of the most important places found in the secondary triangles given in the third and fourth Sections: like the principal stations, these have been referred to the nearest primary meridians.

CONTENTS.

SECTION I.

ART. 1. *Angles of the great Triangles observed in the Years* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809 page 1

ART. 2. *Angles of Elevation or Depression of the several Stations in the preceding Article; also the Angles of Elevation of several remarkable Hills or Mountains, observed in the Trigonometrical Survey of* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809 - - - - - 59

ART. 3. *Situations of the Stations* - - - 70

SECTION II.

ART. 1. *Particulars relative to the Measurement of a new Base Line on Rhuddlan Marsh in the Year* 1806, *with the Reduction of that Base Line* - - - - 82

ART. 2. *Reduction of the Base to the Temperature of* 62° - 85

ART. 3. *Calculation of the Sides of the principal Triangles carried on from the Side joining the Stations Bow Brickhill and Lilley-hoe towards Cambridgeshire and Norfolk* - - 86

ART. 4. *Calculation of the Sides of the principal Triangles carried on from the Side Arbury Hill and Bardon Hill towards the northern Part of Leicestershire* - - - 89

ART. 5. *Calculation of the Sides of the principal Triangles proceeding from the Base Line recently measured on Rhuddlan Marsh* - - - - - - 94

ART. 6. *Junction of the Triangles carried on in South Wales, with those Southward of the Severn and Bristol Channel* page 114

ART. 7. *Calculation of the Sides of the principal Triangles proceeding from the northern Parts of Wales and Cheshire, through Lancashire and the northern Parts of Derbyshire into Yorkshire* 123

ART. 8. *Triangles for ascertaining the Situation of the Great Tower on York Minster* - - - - 136

ART. 9. *Calculation of the Sides of the principal Triangles proceeding from Lancashire and Yorkshire through Westmoreland, Cumberland, Durham, and Northumberland, and a part of the South of Scotland* - - - - 137

SECTION III.

Calculation of the Sides of the secondary Triangles formed by the Intersection of Church Steeples, Light Houses, Signal Staves, and other remarkable Objects from the principal Stations 151

SECTION IV.

ART. 1. *First Class of secondary Triangles proceeding from the Side joining the Stations Bagborough and Moorlynch in Somersetshire, towards the South-east of Devon* - - 179

ART. 2. *First Class of secondary Triangles for the Survey of the North of Devon* - - - - - 181

ART. 3. *First Class of secondary Triangles for the Survey of Dartmoor Forest and the South of Devon* - - 184

ART. 4. *Second Class of Triangles for the interior Survey of Part of Somersetshire, of Devonshire, and Part of Cornwall* - 189

ART. 5. *Secondary Triangles for the Survey of the Western Part of Cornwall* - - - - - 221

ART. 6. *Secondary Triangles for the Survey of Dorsetshire* - 231

ART. 7. *Secondary Triangles for the Survey of Hampshire, Part of Somersetshire, and Part of Wiltshire* - - page 239
ART. 8. *Secondary Triangles for the Survey of the County of Sussex* - - - - - - 254
ART. 9. *Secondary Triangles for the Survey of Part of Surrey* 259
ART. 10. *Secondary Triangles for the Survey of Middlesex and Hertfordshire* - - - - - - 263
ART. 11. *Secondary Triangles for the Survey of Part of Surrey and Part of Berkshire* - - - - - 269
ART. 12. *Secondary Triangles for the Survey of Part of South Wales* - - - - - - 272
ART. 13. *Secondary Triangles for the Survey of Cambridgeshire* 287
ART. 14. *Secondary Triangles for the Survey of Part of Berkshire, Part of Bedfordshire, and Part of Buckinghamshire* 293
ART. 15. *Altitudes of the Stations* - - 299

SECTION V.

ART. 1. *Observations made at Delamere Forest to determine the Zenith Distances of certain Stars* - - - 312
Observations made at Burleigh Moor to determine the Zenith Distances of the same Stars - - - - 316
ART. 2. *Reduction of the Observations made on certain Stars at Delamere Forest in Cheshire, and Burleigh Moor near the Tees Mouth in Yorkshire* - - - - 320
ART. 3. *Amplitudes of the celestial Arc comprehended by the Stations on Dunnose and Burleigh Moor* - - 323
ART. 4. *Amplitudes of the celestial Arc comprehended by the Stations on Dunnose and Delamere Forest* - - 325
ART. 5. *Calculation of the Meridional Distance between Dunnose and Burleigh Moor* - - - - 326

ART. 6. *Computation of the Distance between the Parallels of Latitude of Dunnose and Delamere Forest* - page 330

SECTION VI.

ART. 1. *Latitudes and Longitudes of Five principal Stations* 334

ART. 2. *Bearings and Distances of the several Stations from the Parallels and Perpendiculars to their respective Meridians* 337

ART. 3. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the Third Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians* - - - - - - 344

ART. 4. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the Fourth Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians* - - - - - 356

ART. 5. *An alphabetical List of the Latitudes and Longitudes of the principal Stations, together with several Church Steeples, Light Houses, and other remarkable Objects* - 374

PLATES.

PLATE I. *Plan of the principal Triangles in England and Wales and Part of Scotland. The dotted Line in this Plate denotes the northern Boundary of the Triangles in the Fourth Section, and the Figures shew the Altitudes of the Stations in Feet.*

PLATE II. *Triangles for the Survey of the eastern Part of Devon.*

PLATE III. *Triangles for the Survey of the western Part of Devon.*

PLATE IV. *Triangles for the Survey of the eastern Part of Cornwall.*

PLATE V. *Triangles for the Survey of the western Part of Cornwall.*

PLATE VI. *Triangles for the Survey of Dorsetshire.*

PLATE VII. *Triangles for the Survey of Hampshire, Part of Wiltshire, and Part of Somersetshire.*

PLATE VIII. *Triangles for the Survey of the County of Sussex.*

PLATE IX. *Triangles for the Survey of Surrey.*

PLATE X. *Triangles for the Survey of Middlesex and Hertfordshire.*

PLATE XI. *Triangles for the Survey of Part of Surrey and Part of Berkshire.*

PLATE XII. *Triangles for the Survey of Part of South Wales.*

PLATE XIII. *Triangles for the Survey of Cambridgeshire.*

PLATE XIV. *Triangles for the Survey of Part of Berkshire, Bedfordshire, and Buckinghamshire.*

OUTTERPARAH PUBLIC LIBRARY 1850

ACCOUNT

OF A

TRIGONOMETRICAL SURVEY.

SECTION FIRST.

ARTICLE I. *Angles of the great Triangles observed in the Years* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809.

At Arbury Hill.

Between	°	′	″	Mean.
Corley and Helkinton -	71	0	5,75 7,5	6,5
Burrow Hill and Helkinton	27	3	31,25	
Bardon Hill and Helkinton	36	45	28 34 34,75 30,75	31,75
Epwell and Helkinton - -	160	57	10,75 12 13 13,5	12,25

At Burrow Hill.

Arbury Hill and Helkinton -	143	13	50,5 52	51,25

At Helkinton.

Bardon Hill and Arbury Hill -	125	30	7 9	8
Bardon Hill and Tilton - -	50	10	48,75 47,75 43,5	46,5
Naseby and Arbury Hill - -	139	9	20	
Tilton and Arbury Hill - -	175	40	56,75 55,75 59	57,25

Between	°	′	″	Mean.
Bardon Hill and Naseby - -	95	20	23 21,25 24	22,5
At Naseby.				
Helkinton and Tilton - -	125	48	3,75 5,25	4,5
At Tilton on the Hill.				
Beacon Hill and Stathern Point -	74	51	58,75 58,25 59,75 59,75	59,25
Bardon Hill and Helkinton -	79	16	43,5	
Burrow Hill and Stathern Point -	9	5	4,5 3,5	4
Helkinton and Bardon Hill Summer House	79	14	56,75 56	56,5
Helkinton and Naseby - -	9	2	8,25 8,5	8,25
At Bardon Hill.				
Arbury Hill and Helkinton -	17	44	19,75 21,25	20,5
Corley and Castle Ring - -	59	32	32,5 32	32,25
Holland Hill and Stathern Point -	39	39	16,25 16,75	16,5
Stathern Point and Helkinton	93	15	27,75 28,25	28
Corley and Helkinton - -	56	9	34,25 34,75	34,5
Tilton and Helkinton - -	50	32	31,25	
At Stathern Point.				
Tilton and Bardon Hill - -	56	44	45,25 45,25	45,25

Between	°	′	″	Mean.
Bardon Hill and Holland Hill -	71	33	48	50,75
			52	
			52	
Cropwell Bishop and Bottesford -	93	34	9	

At Holland Hill.

Bardon Hill and Cropwell Bishop -	48	13	35	36,5
			36,25	
			37,75	
Bottesford and Cropwell Bishop -	40	17	28,25	28,75
			29,25	
Sutton Ashfield and Lincoln Minster -	98	5	59,25	59,5
			59,75	
Stathern Point and Lincoln Minster	73	30	59,25	59
			58,75	
Bardon Hill and Stathern Point -	68	46	53,75	52,5
			51,25	
			53	

At Orpit.

Holland Hill and Sutton Ashfield -	21	27	19,5	20,5
			20	
			20,5	
			21	
			21,75	
Bardon Hill and Weaver Hill -	99	5	28	30,25
			30,5	
			32,5	
Castle Ring and Weaver Hill -.	43	2	17	15
			14,75	
			13,25	
Weaver Hill and Hathersage -	97	49	55	56,25
			56,5	
			57	

At Castle Ring.

Between	°	′	″	Mean.
Orpit and Weaver Hill - -	25	21	43 44	43,5
The Wrekin and Weaver Hill	105	18	58,5 58 58,5 59,5	58,75
Weaver Hill and Bardon Hill -	80	54	27,5 28,5	28
Ashley Heath and Weaver Hill -	61	9	42 43,5	42,75
Bar Beacon and The Wrekin -	89	55	47,5 48,75 49	48,75

At Bar Beacon.

Castle Ring and Bardon Hill -	74	45	31 31,5 28	30
Bardon Hill and Corley - -	48	55	50,5 49,5	50
Castle Ring and Corley - - -	123	41	18 20	19
Lyckey Hill and The Wrekin -	84	46	12,5 13,5	13
The Wrekin and Castle Ring -	69	24	29,75 32 32,5 33	32

At Horsemoor Hill.

Lidlington and Trusler Hill -	28	43	52,5 53	52,75
Trusler Hill and Hill Farm - -	77	33	58 59,5	58,75

At Lilleyhoe.

Between	°	′	″	Mean.
Lidlington and Royston - -	115	18	36,5 36,5 35	36″
Bowbrickhill and Royston - -	139	18	11 15	13

At Royston.

Lilleyhoe and Lidlington - -	23	43	40,5 42 42,25	41,75
Lilleyhoe and Orwell - -	126	8	16,25 17,5	16,75
Maddingly and Balsham - -	41	12	36 31,5	33,75
Lilleyhoe and Maddingly - -	135	53	42,75 44,5 42,75 44	43,5
Balsham and Haddenham Spire -	41	11	43,25 48,25 49	46,75
Lidlington and Maddingly - -	112	10	2,5 4,75	3,5
Lidlington and Orwell - -	102	24	39,5	
Orwell and Balsham - - -	50	58	3,5	
Lilleyhoe and Balsham - -	117	6	23 23,25	23
Lidlington and Balsham - -	153	22	57,75	

At Orwell.

Maddingly and Balsham - -	54	0	43,25 43,5 44,75 45,75	44,5

Between	°	′	″	Mean.
Royston and Lilleyhoe	35	24	19,25	20′
			19,5	
			20,75	
			20,75	
Maddingly and Newmarket	50	58	0,5	1
			1,5	
Lilleyhoe and Balsham -	137	15	29	29
			29	
Newmarket and Balsham -	19	7	2,5	3
			3,5	
Balsham and Royston -	101	51	21,25	21,5
			21,75	
Lilleyhoe and Maddingly - -	168	43	36,5	37,25
At Maddingly.				
Northy and Balsham - -	96	47	57,5	58,25
			58,75	
Orwell and Balsham	102	57	26,25	27,75
			27,25	
			29,5	
Orwell and Haddenham -	160	14	32,75	33
			33,25	
Near Balsham.				
Haddenham and Newmarket -	66	59	13,25	14
			13,5	
			14,75	
			14,75	
Maddingly and Haddenham -	40	24	23,5	24
			24,75	
Orwell and Maddingly -	23	1	49,25	
Royston and Newmarket	157	36	0,25	

Between	°	′	″	Mean.
Orwell and Newmarket	130	25	23,25 25	24′

At Newmarket.

Orwell May-pole and Royston -	13	50	33,25 33,75	33,5
Royston and Balsham - -	14	50	44 45,75 46,5	45,5
Brandon and Balsham - -	176	0	11,25 12	11,5
Brandon and Littleport	58	55	3,5 4 5	4,25
Orwell May-pole and Royston -	13	50	33,5	
Royston and Balsham - -	14	50	45,5	
Brandon and Balsham - -	176	0	11,25 12	11,5
Brandon and Littleport -	58	55	3,5 4 5	4,25
Orwell May-pole and Littleport -	88	23	40	

At Brandon.

Thetford and Bartenham - -	53	16	31,25 31,25 31,75	31,5
Bartenham and Newmarket -	94	39	21,75 21,75 22,25 22,75	22,25
Newmarket and Littleport - -	66	5	13,5 15 19	15,75

Between	°	′	″	Mean.
Littleport and Methwold - -	62	25	47 49,25	48
Methwold and Oxborough -	25	4	58 58,5 59	58,5
Oxborough and Thetford - -	58	27	57 59	58
Methwold and Thetford - -	83	32	53,75	
At Cliftop.				
Hathersage and Staincross - -	65	54	33,5 34,5	34
Hathersage and Bradfield Point -	24	16	10 11 12 12,5	11,5
At Hathersage.				
Bradfield Point and Pit Hill -	32	4	18,75 19,25 19,75 19,75 20	19,5
Orpit and Pit Hill - -	150	54	39,25 41	40
Staincross and Beacon Hill near Clifton	50	45	24,75 28,5	26,75
Orpit and Axedge - -	69	35	47 47,25	47
Pit Hill and Lord's Seat - -	51	6	3,25 3,75 5	4
Lord's Seat and Axedge - -	30	12	46 46,25	46

At Lord's Seat.

Between	°	′	″	Mean.
Weaver Hill and Axedge - -	28	17	50,75 52,75	51,75
Hathersage and Axedge - -	117	19	50,25 52	51
Pit Hill and Hathersage -	59	1	41 41,25 42,5 43,75	42
Hathersage and Weaver Hill -	89	1	59 59,25	59
Pit Hill and Weaver Hill - -	148	3	37,75 38 40 41 42,5	40

At Weaver Hill.

Welsh Hill and Orpit - -	172	5	36,5 37 38	37,25
Orpit and Axedge - - -	89	53	37 39,25	38
Lord's Seat and Orpit - -	73	19	28 28,25	28
Castle Ring and Ashley Heath - -	64	23	4,25 5,25	4,75
Ashley Heath and Mow Copt -	42	11	17,5 22	18,75

At Cleeve Hill.

Malvern Station and Breadon Hill -	33	44	27,5 28 28 29.5 29,5	28,5

Between	°	′	″	Mean.
Broadway and Malvern Station	93	4	9,5	10
			10,5	
Broadway and Stow on the Wold	49	21	57,75	
Pen and May Hill -	82	59	35,5	37,25
			37,5	
			37,5	
			38,5	
May Hill and Malvern Station	48	29	38,5	40,5
			39,5	
			40	
			41,5	
			42	
			42	

At Malvern Station.

May Hill and Cleeve - -	64	46	18,75	19
			19	
May Hill and Cradle Mountain -	56	8	15,5	17,25
			18	
			18	
Trelleg Beacon and Cradle Mountain -	40	14	16	17
			18,25	
Trelleg Beacon and Symmond's Hall -	34	56	38,25	
Cradle Mountain and Brown Clay Hill	84	5	30,5	32,5
			34,75	
Cradle Mountain and Stow - -	49	58	40,5	
Broadway and Cleeve - -	27	27	35	

At May Hill.

Malvern Station and Breadon Hill -	87	1	22	22,25
			22	
			22,5	

Between	°	′	″	Mean.
Trelleg Beacon and Cradle Mountain -	49	56	23	24,25
			23,75	
			26,25	
Cradle Mountain and Malvern Station	97	43	33,75	34
			34	
			34,25	
Trelleg Beacon and Symmond's Hall -	69	12	37	37,75
			38,5	
Cleeve and Malvern Station -	66	44	0,5	2
			1	
			4	

At Trelleg Beacon.

Cradle Mountain and May Hill -	99	37	47	48
			48,25	
			49	
Cradle Mountain and Mynydd Mane -	56	17	8	9,25
			8,5	
			10,25	
			10,75	
Dundry Beacon and Mynydd Mane -	79	23	12,5	13,5
			13	
			14,5	
Cradle Mountain and Malvern Station	83	11	44,75	45,5
			46	
Symmond's Hall and May Hill -	59	21	22	23
			22,25	
			25	
May Hill and Malvern Station - -	16	26	1,5	3
			2,5	
			4	
			4,5	
Malvern Station and Symmond's Hall	75	47	26	

At Mynydd Mane.

Between	°	′	″	Mean.
Cradle Mountain and Trelleg Beacon -	78	56	7 9	8
Dundry Beacon and Trelleg Beacon -	63	21	8 8,5 9 10 10,5	9
Cradle Mountain and Llangeinor Mountain	89	22	37,5 41	39,25
Llangeinor Mountain and Garth Hill -	37	25	37,5	
Llangeinor Mountain and Capelante -	41	35	35 36,25 37 37	36,25
At Garth Hill.				
Llangeinor Mountain and Mynydd Mane	106	57	58 58,5	58,25
Llangeinor Mountain and Flatholme's Light House - - - -	152	52	33,5 34,5	34
Llangeinor Mountain and Ogmoor Down	51	2	31,25 31,25 33,5	32
Ogmoor Down and Duncary Beacon -	42	42	28 28,25 28,75 30	28,75
Llangeinor Mountain and Duncary Beacon	93	44	58 58,25 59,75	59
At Ogmoor Down.				
Llangeinor Mountain and Garth Hill -	61	53	34,25 34,75	34,5

Between	°	′	″	Mean.
Duncary Beacon and Garth Hill -	109	40	6	
			6,25	6,75
			7	
			7,25	
Duncary Beacon and Cefn Bryn -	110	56	48	
			48,25	49,25
			50,5	
			50,75	
Cefn Bryn and Margam Down -	43	7	52,75	
Margam Down and Llangeinor -	34	21	33,75	34,25
			34,5	
Margam Down and Newton Down Signal Staff - - - -	15	44	56,5	
			57	57
			57,5	
Margam Down and the Signal Staff on Vole Vour near Neath - -	11	18	22	
			22,25	23,25
			23,75	
			25	
Margam Down and the Signal on Kilvey Hill near Swansea - -	22	33	21	
			21,5	22
			22,5	
			22,5	
Margam Down and Cefn Bryn Signal Staff	43	8	12,5	
			13,5	14
			14,5	
			15,5	
Margam Down and the Signal Staff near Cowbridge - - -	117	25	54,5	55
			55,5	
Duncary Beacon and Parracombe -	31	4	51,25	

Between	°	′	″	Mean.
Parracombe and Hangman Hill - -	15	57	35	35,25
			35	
			35	
			36,25	

At Llangeinor Mountain.

Cradle Mountain and Mynydd Mane -	42	1	13,25	14
			14,75	
Mynydd Mane and Garth Hill -	35	36	24,25	25
			26	
Flatholme's Light House and Garth Hill	13	36	8	8,25
			8,5	
Mynydd Mane and Capelante - -	71	54	46	47,5
			46,25	
			48,5	
			49,5	
Ogmoor Down and Garth Hill -	67	3	52,25	52,5
			52,75	
Ogmoor Down and Margam Down -	50	3	3	4,25
			5,5	
Margam Down and Trecastle Beacon	104	20	9	9,5
			9,5	
			10,25	
Garth Hill and Duncary Beacon - -	61	42	51,5	

At Margam Down.

Ogmoor Down and Llangeinor Mountain	95	35	22	22,5
			23	
Ogmoor Down and Cefn Bryn -	116	54	15,5	16,5
			17,5	
Cefn Bryn and Lannon - -	32	1	11	12
			13	

Between	°	′	″	Mean.
Llangeinor Mountain and Trecastle Beacon	56	39	49	
			50,25	50,5
			52	
Lannon and Trecastle Beacon - -	58	49	18	
			18	18
At Cefn Bryn.				
Ogmoor Down and Duncary Beacon -	31	35	27,25	
			27,25	27,25
Ogmoor Down and Margam Down -	19	57	51	
			51,5	52
			53,5	
Margam Down and Lannon - -	91	3	15	
			17,25	16,25
			17	
Lannon and Marros Beacon - -	57	55	37,25	
			39,25	38,25
At Marros Beacon.				
Lannon and Cefn Bryn	31	13	13	
			15,75	15
			16	
Lannon and Precelly Mountain -	115	22	28	
			29	
			29	29,5
			30,5	
			31	
Precelly Mountain and Highgate Mountain	83	40	18,5	
			19,5	20
			20,75	
			21,25	
Highgate Mountain and Newton Down	19	5	59,75	

At Lannon.

Between	°	′	″	Mean.
Margam Down and Cefn Bryn -	56	55	34	34,5
			34.5	
			35	
Cefn Bryn and Marros Beacon -	90	51	7	8
			8,25	
			9,25	
Margam Down and Trecastle Beacon -	56	12	9,25	10,5
			10	
			11,25	
			11,5	
Trecastle Beacon and New Inn Hill -	74	9	12,25	13
			12,75	
			13,5	
New Inn Hill and Precelly Mountain -	53	5	24	25
			26	
Precelly Mountain and Marros Beacon	28	46	24,75	25,25
			25,75	

At Precelly Mountain.

Marros Beacon and Lannon - -	35	51	6,75	
Marros Beacon and Highgate Mountain	47	19	13	
Plumstone Down and St. Ann's Hill -	20	26	6	6
			5,75	

At Plumstone Down.

St. Ann's Hill and Precelly Mountain -	140	0	42,5	42,75
			43	
Precelly Mountain and Newton Down	85	23	56,5	

At St. Ann's Hill.

Precelly Mountain and Plumstone Down	19	33	12,25	13
			12.75	
			14	

Between	°	′	″	Mean.
Plumstone Down and Newton Down -	50	45	37	

At Highgate Mountain.

Marros Beacon and Precelly Mountain	49	0	26,25	27,5
			27,75	
			28	
Marros Beacon and Newton Down -	58	6	19,75	20,5
			20	
			21	
			21,25	

At Newton Down.

Marros Beacon and Highgate Mountain	102	47	39	40,5
			40,5	
			41,75	
Marros Beacon and Precelly Mountain	65	7	50	51,5
			50,75	
			52	
			53,25	
Precelly Mountain and Plumstone Down	52	45	33,75	34,5
			34,5	
			35,75	
Plumstone Down and St. Ann's Hill -	74	37	37,25	39,25
			38,5	
			40,5	
			40,75	

At New Inn Hill.

Lannon and Trecastle Beacon - -	63	13	18	18,25
			18,5	
Lannon and Precelly Mountain -	94	38	58	58,75
			58,5	
			59,5	
Trecastle Beacon and Talsarn - -	95	9	37,75	38,5
			38	
			39,5	

Between	°	′	″	Mean.
Precelly Mountain and Capel Kynon -	59	49	27,25	29
			28	
			29,5	
			30	
			30,75	
Capel Kynon and Talsarn - -	47	8	34,75	36
			35,5	
			37,25	
At Talsarn.				
Precelly Mountain and New Inn Hill -	43	49	8,25	9
			9,75	
New Inn Hill and Trecastle Beacon -	50	4	48,75	50,25
			50	
			50,25	
			51,75	
New Inn Hill and Capel Kynon -	44	38	23,25	24,25
			24	
			25,75	
Tregarron Down and Trecastle Beacon	56	46	42,75	43
			43,25	
Tregarron Down and Aberystwith Station	74	32	0,5	1,5
			2,75	
Tregarron Down and Llandowy Brevi Down	30	32	3	4,25
			3	
			4,75	
			6,25	
At Capel Kynon.				
Precelly Mountain and New Inn Hill -	90	28	19,25	20,25
			19,5	
			21,75	
New Inn Hill and Talsarn - -	88	12	59,75	

At Tregarron Down.

Between	°	′	″	Mean.
Talsarn and Trecastle Beacon - -	98	53	0 1,75	1″
Plynlimmon and Aberystwith Station -	44	23	31,25 31,75	31,5
Aberystwith Station and Talsarn -	59	51	6,5 7,5 8 9,75	8
Plynlimmon and Llandinam Mountain -		43	44 2	
Llandinam Mountain and Capellante -	96	31	43,5 45,75	44,5
Talsarn and Llandowy Brevi Down -	61	59	23 23,5 24	23,5

At Aberystwith Station.

Plynlimmon and Tregarron Down -	66	50	29 30,5 31	30
Tregarron Down and Talsarn - - -	45	36	53,5 55,25 56	55
Rhiw Mountain and Pengarn Mountain	45	23	55,75 56,5 57	56,5
Rhiw Mountain and Snowdon - -	39	44	27 29,25	28
Rhiw Mountain and Cader Idris -	60	6	50	
Plynlimmon and Cader Idris - -	57	53	27,5	

At Llandinam Mountain.

Long Mountain and Stow Hill - -	58	27	19,25 21	20

Between	°	′	″	Mean.
Long Mountain and Radnor Forest -	93	14	17 18,25 19	18
Long Mountain and Arran Fowddy -	65	49	26	
Plynlimmon and Arran Fowddy -	54	55	22	
Long Mountain and Plynlimmon -	120	44	50 50,5	50,25
Plynlimmon and Rodney's Pillar -	115	35	24 27	25,5
Plynlimmon and Tregarron Down -	49	3	6,75 8 9	8
Tregarron Down and Capellante -	49	37	25,5	

At Stow Hill.

Long Mountain and The Wrekin Staff	52	20	57 57,5 58,25 59	58
Brown Clay Hill and The Wrekin Staff	23	28	31,25 32 32,75	32
Brown Clay Hill and Long Mount Pole	40	7	49,75 51,25 52,5	51,25
Long Mountain and Long Mount Pole	35	41	38,75	
Brown Clay Hill and Malvern Station -	56	46	15 16,5 16,5	16
Malvern Station and Cradle Mountain -	67	53	49 51	50

Between	°	′	″	Mean.
Long Mountain and Llandinam Mountain	67	32	18,5 20 21	20
Llandinam Mountain and Radnor Forest	51	3	11,25 11,75 13	12
Radnor Forest and Cradle Mountain -	40	54	57,5 57	57,25
At Radnor Forest.				
Long Mountain and Llandinam Mountain	53	29	5	
Llandinam Mountain and Stow Hill -	94	9	49.5 50,75	50
Stow Hill and Cradle Mountain -	120	30	47 47	47
At Symmond's Hall.				
May Hill and Trelleg Beacon - -	51	26	3 4 5,5	4,25
Trelleg Beacon and Malvern Hill -	69	15	56,5 59 61,5	59
Trelleg Beacon and Dundry Beacon -	70	4	23 24,25	23,5
At Rhiw Mountain.				
Llwydiart Mountain and the Signal Staff on Holyhead Mountain - -	33	24	5,75 6,5 10,5	7,5
Llwydiart Mountain and Ynaliog Mountain	138	3	37,5 38	37,75
Ynaliog Mountain and Snowdon -	162	28	37 38,5	37,75

Between	°	′	″	Mean.
Llwydiart Mountain and and Bwlch Mawr	14	43	6,25 7 7,75	7
Pengarn Mountain and Snowdon -	58	14	49 49,5 50	49,5
Pengarn Mountain and Bwlch Mawr -	67	56	45 46,5	45,75
Pengarn Mountain and Cader Idris -	6	18	10,75 12 13	12
At Llwydiart Mountain.				
Llanelian Mountain and Moel Rhyddlad	37	2	59 60 60,5	59,75
Rhiw Mountain and Moel Rhyddlad -	83	1	35 35,5	35,25
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	105	49	43 45,5 45,5 46	45
Moel Rhyddlad and Snowdon - -	131	13	5,5 7,5 8,25 10,25	
Moel Rhyddlad and the Signal Staff on Holyhead Mountain - - -	17	52	33,25 33,75 34,25 36,5	34,25
Moel Rhyddlad and Ynaliog Mountain -	78	18	19 20	19,5

Between	°	′	″	Mean.
Moel Rhyddlad and Bwlch Mawr -	95	4	4·5	5
			5	
			5,5	

At Llanelian Mountain in Anglesea.

Llwydiart Mountain and Snowdon -	7	25	39·5	41
			42,5	
Llwydiart Mountain and Llanelian Mountain	37	47	29·5	30,5
			30,5	
			31	
			31	
Llwydiart Mountain and Moel Rhyddlad	111	13	17	19
			18	
			19,5	
			20	
			20,25	
			20,5	
Moel Rhyddlad and the Signal Staff on the Skerry Island - - -	15	46	31,5	32
			32	
			32,5	
Llwydiart Mountain and the Signal Staff on Table Hill - - -	20	7	30,25	31,5
			30,75	
			31	
			32,75	
			33,25	
Llwydiart Mountain and the Signal Staff on the Great Orme's Head - -	46	36	30	31,75
			31,75	
			32	
			33	

Between	°	′	″	Mean.
Llwydiart Mountain and the Signal Staff on Holyhead Mountain -	98	31	57,25	59
			58,25	
			60,25	
			60,5	
Garreg Mountain and Llanelian Mountain	13	7	8,25	

At Moel Rhyddlad.

Llanelian Mountain and Skerry Light-house	121	18	18	
			19	
			19	19,5
			19,5	
			21	
Llanelian Mountain and Llwydiart Mountain	31	43	42,5	
			43,5	
			44,5	44,5
			45,5	
			46	
Llwydiart Mountain and Snowdon -	24	0	54,5	54,75
			54,5	
			55	
Llwydiart Mountain and Rhiw Mountain	71	53	56,5	58,5
			57,75	
			59,25	
			60	
Llwydiart Mountain and Holyhead Mountain Signal Staff - - - -	116	10	0	1,5
			0,5	
			4	
Llwydiart Mountain and Ynaliog Mountain	78	24	42	43
			42,75	
			44	

Between	°	′	″	Mean.
Llwydiart Mountain and Bwlch Mawr -	48	35	21	21″,75
			21,25	
			22	
			22,75	
June 22. Pole Star at its greatest eastern elongation from the Meridian and the top of the Skerry Light House - -	42	36	57,5	
29.		37	7	4
30.			7,5	
June 23. The Pole Star at its greatest western elongation from the Meridian and the top of the Skerry Light House -	36	47	12,5	
24.			14,5	12
29.			9	
At Pengarn Mountain.				
Rhiw Mountain and Snowdon - -	62	48	16	16,25
			16,5	
Rhiw Mountain and Bwlch Mawr -	36	35	43	43,5
			43,5	
			43,5	
Rhiw Mountain and Cader Idris -	140	14	20	21
			21,5	
			22	
Cader Idris and Aberystwith Station -	111	48	50,75	51,5
			52	
At Plynlimmon.				
Llandinam Mountain and Arrennig -	99	24	18	18,5
			19	
Llandinam Mountain and Cader Idris	120	25	55,5	58
			58	
			60	

Between	°	′	″	Mean
Llandinam Mountain and Rodney's Pillar	42	12	9	
			9,5	
			10,5	11
			11	
			12,5	
			13	
Llandinam Mountain and Radnor Forest	16	46	0,5	1,25
			2	
Llandinam Mountain and Tregarron Down	87	12	50	
			50,5	51
			52,5	
Tregarron Down and Aberystwith Station	68	45	59	
			60	60
			60,75	
Llandinam Mountain and Arran Fowddy	92	2	8,5	9,[illegible]
			10,75	
At Long Mountain.				
Cyrn y Brain Mountain and Arrennig	47	56	2	2,[illegible]
			2,75	
Cyrn y Brain Mountain and The Wrekin	93	3	52,5	
			52,5	53,25
			54,5	
Cyrn y Brain Mountain and Hawkeston Obelisk - - - -	59	58	31,5	
			34	33,5
			35	
Stow Hill and The Wrekin - -	84	0	3	3,5
			4	
Ashley Heath and Hawkeston Obelisk -	4	44	32	32
			32	
Stow Hill and Llandinam Mountain -	54	0	22	
			23	22,75
			23	

Between	°	′	″	Mean.
Llandinam Mountain and Arrennig -	80	59	40 40,25	40
Llandinam Mountain and Cader Idris -	53	0	12,5 13,5	13
Llandinam Mountain and Rodney's Pillar	155	0	23	
Stow Hill and a very high Pole near Treginnan - - - -	37	12	11,25 12 13	12
Cyrn y Brain Mountain and Trinity Spire, Chester - - - -	19	32	56 56,5 57	56,5
Cyrn y Brain Mountain and Cader Ferwyn	26	20	52,5 53	52,75
Cyrn y Brain Mountain and Arran Fowddy	60	57	38	
Llandinam Mountain and Arran Fowddy	67	58	3 3,5	3,25
Llandinam Mountain and Radnor Forest	33	16	37,75 40	39

At Brown Clay Hill.

Ashley Heath and Rodney's Pillar -	64	19	8	
Ashley Heath and Long Mount Pole -	83	43	56 56	56
Ashley Heath and Hawkeston Obelisk -	19	10	1,75 2,25	2
Stow Hill and The Wrekin - -	122	50	14,5 14,75	14,5
Stow Hill and Long Mount Pole -	47	12	28,75 31,25 32	30,75

Between			"	Mean.
Stow Hill and Malvern Station -	89	6	54,25 55,5	55
Bar Beacon and The Wrekin - -	68	11	15,75	
At Ashley Heath.				
Weaver Hill and The Wrekin -	129	55	22,5 23 24,5	23
Weaver Hill and Mow Copt - -	45	40	37 37,25 38 39,75	38
Delamere Forest and Cyrn y Brain Mountain	44	30	31 32,5 34,5	32,75
Delamere Forest and Hawkeston Obelisk	80	37	19 21 22,5	21
Delamere Forest and Rodney's Pillar -	84	29	49,5 52	50,75
Delamere Forest and Mow Copt -	58	17	23 24,5 26	24,5
Cyrn y Brain Mountain and The Wrekin	81	36	0 1,5 2,5	1,5
Brown Clay Hill and Rodney's Pillar -	47	26	29 31,5	30,25
Brown Clay Hill and Hawkeston Obelisk	51	18	49,25 50 50,75	50
Brown Clay Hill and the Pole on Long Mount Forest - - -	21	27	3,5 6,5 7,25	5,75

Between				Mean.
The Wrekin and Long Mount Pole -	15	37	25 25,5	25,25
At Cyrn y Brain Mountain.				
Delamere Forest and Ashley Heath -	45	50	50,5 51 52,25 52,75	51,5
Delamere Forest and Hawkeston Obelisk	60	26	45 45,5 46	45,5
Delamere Forest and Garreg Mountain	74	23	15,5 15,75	15,5
Ashley Heath and Long Mount Pole -	55	20	33,5 36,75	35,5
Ashley Heath and Rodney's Pillar -	62	23	3,5 4,75	4
Ashley Heath and Long Mountain -	68	44	34 34,5 34,5	34,5
Ashley Heath and The Wrekin -	30	28	28 31,5 32	30,5
Long Mountain and Arrennig -	78	27	45,5 47,5	46,5
Long Mountain and Hawkeston Obelisk	54	8	38,5 40,5 41	40
Long Mountain and Afran Fowddy -	58	48	27,5	
Long Mountain and Cader Ferwyn -	48	54	55,5 57 59	57
Snowdon and Moel Fammau - -	69	30	52,5 54 55,5	54

Between	°	′	″	Mean.
Llanelian Mountain and Moel Fammau	33	49	6 6,5 7	6,5
Llanelian Mountain and Garreg Mountain	40	12	19 19,5	19,25
Garreg Mountain and Arrennig -	92	33	30,5 31 33	31,[illegible]

At Llanelian Mountain in Denbighshire.

Moelfre Issa and the Signal Staff on the Great Orme's Head - -	138	45	46 46,5 47,5 48	47
Garreg Mountain and the Signal Staff on the Great Orme's Head - -	124	52	9,5 10 12	10,5
Garreg Mountain and Moel Fammau -	27	59	37,5 38,5 40	38,75
Arrennig and the Signal Staff on the Great Orme's Head	135	0	4,5 4,75 5,75	[illegible]
Cyrn y Brain Mountain and the Signal Staff on the Great Orme's Head -	166	16	20,5 21,5 23	21,75
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	23	15	50,5 52 52,5 52,5	52

Between	°	′	″	Mean.
Cyrn y Brain Mountain and Cader Ferwyn	25	44	41,5	43,5
			44	
			44,5	
Cyrn y Brain Mountain and Billinge Beacon	55	42	37,5	37,75
			38	
At Garreg Mountain.				
Llanelian Mountain in Denbighshire and the Signal Staff on the Great Orme's Head	15	12	23	25
			24	
			26,5	
			26,5	
Llanelian Mountain in Denbighshire and Cyrn y Brain Mountain - - -	98	23	30	31,5
			30,5	
			32	
			32	
			32,5	
Cyrn y Brain Mountain and Arrennig -	52	12	57,5	59
			59,5	
			59,5	
Cyrn y Brain Mountain and Delamere Forest	62	29	12,25	13,75
			14	
			14,75	
Llanelian Mountain in Denbighshire and Moel Fammau - - -	92	43	51,75	53
			53	
			54,25	
Llanelian Mountain in Denbighshire and Llanelian Mountain in Anglesea -	18	44	52,25	53,5
			53,5	
			54,75	
Cyrn y Brain Mountain and Gwaunysgaer Down - - - -	122	42	9	10,75
			11	
			11,75	

Between	°	′	″	Mean.
Snowdon and Gwaunysgaer Down -	51	35	9,25	10,5
			10,75	
			11	
Cyrn y Brain Mountain and Arran Fowddy	41	30	5,75	7
			6,5	
			8,5	
Billinge Beacon and Gwaunysgaer Down	122	19	48	50
			48,5	
			50	
			53	
At Delamere Forest.				
Cyrn y Brain Mountain and Garreg Mountain	43	7	32	33
			32,5	
			34	
Cyrn y Brain Mountain and Ashley Heath	89	38	37	38,5
			38	
			40	
Cyrn y Brain Mountain and Hawkeston Obelisk - - - -	63	50	20	21
			21	
			22,5	
Ashley Heath and Mow Copt - -	38	8	17	17,5
			18,25	
Ashley Heath and Rodney's Pillar -	55	4	35,5	
Garreg Mountain and Billinge Beacon	74	56	54	56
			55,5	
			57	
			58,5	
Mow Copt and Kelsall Staff. - -	111	32	48	49
			48,5	
			50	
Kelsall Staff and Denham Spire -	140	12	4,5	6,25
			6	
			8	

Between	°	′	″	Mean.
Cyrn y Brain Mountain and Moel Fammau	20	53	56,5	57,5
			58,5	
Oct. 17. Pole Star at its greatest apparent western elongation and Kelsall Staff	135	8	5	8,5
18.			6,75	
19.			8,25	
21.			14	
Oct. 18. Pole Star at its greatest apparent eastern elongation from the Meridian and Kelsall Staff	140	53	56,75	3,75
19.		54	10,75	
20.			2,75	
22.			4,25	
At West End of Base.				
Gwaunysgaer Down and East End of Base	20	34	1,5	2,5
			2,5	
			3,5	
Moelfre Issa and East End of Base	75	45	16	17
			17,5	
			17,75	
Moelfre Issa and Cave Hill Signal Staff	70	51	14,5	15,5
			15	
			17	
At East End of Base.				
Gwaunysgaer Down and West End of Base	135	11	59	59,5
			59,25	
			59,5	
			59,5	
			60	
			60	
Moelfre Issa and West End of base	40	12	32	33
			34	

At Gwaunysgaer Down.

Between	°	′	″	Mean.
East End of Base and West End of Base	24	14	0,5	1,5
			1,5	
			2,25	
			2,5	
West End of Base and Moelfre Issa -	21	40	24	25
			24,5	
			27	
Moelfre Issa and the Signal Staff on the Great Orme's Head - -	37	42	34	34,75
			35,5	

At Moelfre Issa.

East End of Base and West End of Base	64	2	10	11
			10	
			12	
West End of Base and Gwaunysgaer Down	62	0	18,25	19,5
			19	
			20,75	
Gwaunysgaer Down and the Signal Staff on the Great Orme's Head -	117	26	10	11,25
			10,5	
			13	
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	21	49	25	26
			27	

At Burleigh Moor.

Easington and Hartlepool Signal Staff	124	53	42,5	
Easington and Danby Beacon -	40	44	47	
			50	
			51	51,5
			55	
			55	

Between	°	′	″	Mean.
Barnaby Moor Pole and Easington -	160	23	52	52,5
			53	
Barnaby Moor Pole and Roseberry Top	42	58	55	56,5
			55,5	
			57,5	
			58	
Easington and Wordeslow Hill -	131	33	54,5	56
			56,5	
			57	
At Easington Heights.				
Barnaby Moor Pole and Burleigh Moor	5	50	55	
Barnaby Moor Pole and Botton Head -	45	20	6	6,75
			7,5	
Botton Head and Loosehoe - -	26	13	22	22,5
			22	
			22,5	
			22,5	
			22,5	
Botton Head and Wordeslow Hill -	88	18	12,25	
Loosehoe and Stow Brow - -	65	0	34	36,5
			37	
			38,5	
Loosehoe and Fair Head - -	47	40	5	5,5
			5,5	
			6	
Burleigh Moor and Wordeslow Hill -	37	7	16	17
			18,25	
At Botton Head.				
Easington and Barnaby Moor Pole -	49	47	39	40,75
			41,5	
			42	
Easington and Hartlepool Signal Staff -	52	2	59	0,5
		3	1	
			2	

Between	°	′	″	Mean.
Easington and Roseberry Top -	48	52	20	21,25
			21,5	
			22,5	
Easington and Loosehoe - -	51	0	23	23
			22,25	
Loosehoe and Wilton Beacon -	62	15	1	
Loosehoe and Hambleton Down -	112	56	33,5	35
			33	
			35,5	
			36,5	
			37	
Loosehoe and Barnaby Moor Pole -	100	48	3,25	4,5
			5,5	
Wilton Beacon and Hambleton Down -	50	41	34,5	
Wilton Beacon and Hemingbrough Spire	19	20	11	11,5
			11	
			12,5	
Wilton Beacon and York Minster -	24	40	10,5	15,25
			17	
			18	
York Minster and Hambleton Down -	26	1	19	
Easington and Wordeslow Hill -	65	37	32,5	33
			33,5	
At Loosehoe.				
Botton Head and Easington - -	102	46	12	14
			13	
			13,5	
			14	
			15	
			15	
Easington and Fair Head - -	66	59	7	11,75
			11	
			13	
			16	

Between	°	′	″	Mean.
Easington and Stow Brow - -	75	20	37	38
			38	
			39	
Easington and Barnaby Moor Pole -	52	41	21,25	
Wilton Beacon and Botton Head -	105	51	29,5	
Wilton Beacon and Hambleton Down -	61	14	39	40,25
			41,5	
Botton Head and York Minster -	80	41	36	39
			38,5	
			40	
			41	
Botton Head and Hambleton Down -	44	36	46	49
			48	
			53	
Wilton Beacon and York Minster -	25	9	53,5	56,25
			56,5	
			58,5	
Wilton Beacon and Hemingbrough Spire	16	5	59	
Stow Brow and Pickering Common -	33	39	41,5	42,5
			42	
			44	
Stow Brow and Kirby Underdale Station •	75	30	45,5	
Botton Head and Barnaby Moor Pole -	50	4	54	

At Wilton Beacon.

Botton Head and Loosehoe - -	11	53	29	28,5
			28	
Loosehoe and Hambleton Down -	34	0	15	16,75
			16	
			17,5	
			18,5	

Between	°	′	″	Mean.
Hambleton Down and Botton Head -	22	6	50	51,5
			50	
			51,5	
			51,5	
			52	
			53,5	
Botton Head and Hemingbrough Spire	126	5	49,5	51,5
			50,75	
			51,5	
			52	
Botton Head and York Minster -	75	45	14	15
			14,5	
			15	
			15,5	
			16	
Hunsley Beacon and Hemingbrough Spire	58	16	36,5	37,75
			39,5	
Hunsley Beacon and York Minster -	108	37	9	10,25
			9,5	
			10	
			12,5	
Loosehoe and York Minster - -	87	38	40	42,25
			43	
			43,5	

At Hunsley Beacon.

Crowle and Wilton Beacon - -	113	21	8,5	12,25
			14	
			15	
Wilton Beacon and York Minster -	32	10	57	58,75
			59	
			59,5	
			60	
Crowle and York Minster - -	81	10	11,5	12,75
			14,5	

Between	°	′	″	Mean.
Crowle and Hemingbrough Spire	44	58	18	
			20	20,25
			23	
Wilton Beacon and Hemingbrough Spire	68	22	49	
			51,5	50,25
At Crowle.				
Brayton Spire and Hunsley Beacon	74	48	16,5	
			18	
			19	18,5
			20,5	
Hemingbrough Spire and Hunsley Beacon	67	54	1	
			2	
			2	2,25
			2,5	
			3,5	
Gringley and Clifton -	46	54	33,5	
			33,5	
			34	
			36	35,5
			37,5	
			38	
Brayton Spire and Clifton -	85	11	1,25	
			2	
			2	2,5
			4,75	
At Staincross Heights.				
Hathersage and Holme Moss - -	65	51	1,75	
			2,5	2,5
			3	
Hathersage and Bradfield Point -	8	48	40,75	
			42	42,75
			45,5	

Between	°	′	″	Mean.
Ledstone Beacon and Bradfield Point -	167	52	33,75	34,75
			34,75	
			35,5	
Ledstone Beacon and Holme Moss -	135	5	5,5	7
			6,5	
			9,5	
Hemingbrough Spire and Holme Moss	163	56	0,25	

At Boulsworth Hill.

Ingleborough and Bleasdale Forest -	45	51	56	56,5
			56,5	
			56,5	
			57	
Ingleborough and Pendle Hill - -	39	22	46,75	48,25
			47,25	
			49,25	
			49,75	
Ingleborough and Great Whernside -	36	31	2,5	3
			3	
			3	
			3,75	
Wittle Hill and Bleasdale Forest -	76	12	11	12,75
			14,75	
Wittle Hill and Holme Moss -	57	44	10,5	11,75
			11,5	
			13,5	
Wittle Hill and Pendle Hill - -	82	41	12,75	17,5
			17,75	
			21,75	
Rumbles Moor and Great Whernside	51	53	32,5	35,75
			38,75	
Rumbles Moor and Pendle Hill - -	127	47	25,25	26,75

At Ingleborough.

Between	°	′	″	Mean.
Black Comb and Helvellin Mountain -	35	15	14,5 16,5	15,5
Black Comb and Coniston Fell -	16	9	33,5 35,75 38,75	36
Black Comb and The Calf - -	61	35	32,25 34	33
Black Comb and Bleasdale Forest -	71	49	42 42,75 45,25	43,5
The Calf and Helvellin Mountain -	26	20	17 19,5	18,25
The Calf and Coniston Fell - -	45	25	55,75 57,75	56,75
The Calf and Shunnor Fell -	43	31	18,75 19,25	19
The Calf and Great Whernside -	109	42	5 10	7,5
Boulsworth Hill and Bleasdale Forest	54	11	28,5 29,75 29,75 30,75	29,75
Boulsworth Hill and Great Whernside	62	41	5,5 6,5 9,25 10	7,75
Great Whernside and Pennigant Mountain	5	33	15 17	16

At Rumbles Moor.

Hambleton Down and Black Hambleton	6	11	3,75 7 9,25	6,75

Between	°	′	″	Mean.
Hambleton Down and Great Whernside	67	17	43	44
			43,5	
			44,5	
			44,5	
Hambleton Down and York Minster -	36	2	19,5	20,25
			21	
Boulsworth Hill and Pendle Hill - -	20	24	4,75	6
			7,25	
Boulsworth Hill and Holme Moss -	57	26	31,75	32
			32	
Boulsworth Hill and Great Whernside -	95	57	49,75	50,25
			49,75	
			50,75	
Ledstone Beacon and Holme Moss -	72	16	30,5	31,75
			33	
Great Whernside and Holme Moss -	153	24	15,5	19,5
			18,75	
			22,5	

At Ledstone Beacon.

Rumbles Moor and Hemingbrough Spire	158	23	6,75	9
			7,5	
			9	
			12,75	
Rumbles Moor and York Minster -	103	17	40	41,75
			43,5	
Staincross Heights and Hemingbrough Spire	120	9	9,5	10,5
			9,75	
			10,5	
			12,25	
Hambleton Down and Hemingbrough Spire	84	34	0,75	
Holme Moss and Hemingbrough Spire	143	16	32,25	33,5
			35	
Hambleton Down and Black Hambleton	2	49	58,25	

At Black Hambleton.

Between	°	′	″	Mean.
Rumbles Moor and Great Whernside	31	38	35,75 35,75 36,75 38,75	36,75
Great Whernside and Water Crag -	32	56	48,25 52,5 54	51,75
Hambleton Down and Water Crag -	122	11	25,25 30,25	27,75
Hambleton Down and Botton Head -	118	53	1,75 3,25 3,75 4,75 4,75 5	

At Hambleton Down Station.

Ledstone Beacon and Brayton Spire -	16	43	17,5 18,75 24,5 24,75	21,25
Ledstone Beacon and Hemingbrough Spire	23	44	0,25 2,25	1,25
Hemingbrough Spire and Wilton Beacon	30	46	30,5	
Black Hambleton and Botton Head -	42	55	24,25 24,75	24,5
Botton Head and Wilton Beacon -	107	11	36,5	
Wilton Beacon and York Minster -	31	28	23,5 25	24,25
Rumbles Moor and York Minster -	62	11	40,25 41,75	41
Black Hambleton Down and Rumbles Moor	116	12	53,5 56,75 61,75	57,25

Between	°	′	″	Mean.
Ledstone Beacon and Rumbles Moor	39	9	26	28″,5
			27,25	
			27,5	
			33,5	
Black Hambleton Down and Great Whernside	82	56	27,75	29,5
			31.5	
Black Hambleton Down and Wilton Beacon	150	7	0	2.5
			1	
			6.5	
Black Hambleton Down and Ledstone Beacon - - - -	155	22	23	24,5
			25.75	
At Brandon Down.				
Botton Head and Black Hambleton -	15	36	47	50
			53	
Botton Head and Wordeslow Hill -	77	58	42.75	43,75
			43,25	
			44,75	
Water Crag and Burleigh Moor -	102	17	33	33,75
			34,5	
Water Crag and Black Hambleton -	67	43	27,5	
Burleigh Moor and Wordeslow Hill -	59	1	30,75	31,5
			30,75	
			32.	
			32,75	
Pontop Pike and Wordeslow Hill -	81	21	39,5	42,75
			43,25	
			45,25	
Collier Law and Wordeslow Hill -	141	40	29	31,5
			30,75	
			32,25	
			34,5	

Between	°	′	″	Mean.
Pontop Pike and Collier Law - -	60	18	49,25 51,25 52	51
Water Crag and Collier Law -	57	0	23 24,25 24,75 25,25	24,25
Black Hambleton and Botton Head -	15	36	47 53	50
At Heswell Hill.				
Cyrn y Brain Mountain and Delamere Forest	74	28	39,25 39,5	39,5
Delamere Forest and Billinge Beacon -	61	10	54,5 54,75 56 57,75	55,75
Billinge Beacon and Go Hill - -	26	17	27,75 30,25 32,75	30,25
Cyrn y Brain Mountain and Everton Flagstaff - - - -	147	48	43,5 42,5 47,25	44,25
Delamere Forest and Everton Flagstaff	73	20	6 7,75	7
Ormskirk Spire and Everton Flagstaff -	12	14	11 17,75	14,5
Everton Flagstaff and the Landmark with a Vane near Formby - -	39	34	2,75 5,5 8,75	5,75

Between	°	′	″	Mean.
Everton Flagstaff and the Landmark without a Vane near Formby - -	34	46	43,5 45,75	44,5
At Belle-field Hill.				
Billinge Beacon and Heswell Hill -	65	49	36,25 36,5 40,25 41	38,5
Billinge Beacon and Rivington Hill	35	44	0,25 0,25 2,25	1
Delamere Forest and Billinge Beacon -	126	53	15,25 19,25 17,75 20	18,25
At Billinge Beacon.				
Cyrn y Brain Mountain and Delamere Forest	34	13	45,75 46 51,25	47,75
Belle-field Hill and Delamere Forest -	24	5	14 16 18,5	16,25
Delamere Forest and Mow Copt -	34	1	7 7,5 9,5 9,5 10	8,75
Rivington Hill and Knoll Hill - -	19	11	0 1,5 1,75 2,75 5,25 6 6,25	4

Between	°	′	″	Mean.
Delamere Forest and Rivington Hill -	132	2	19,5	21″,5
			20,5	
			20,75	
			24,5	
Belle-field Hill and Rivington Hill -	107	57	1,5	2,75
			1,75	
			4,75	
Go Hill and Delamere Forest - -	119	41	22,5	
			23,5	
			24,5	·25
			26,5	
			28	
Rivington Hill and Bleasdale Forest -	36	33	51,5	54,25
			51,5	
			54.5	
			56,75	
			57,5	
Go Hill and Rivington Hill - . -	108	16	13	15,25
			15	
			16,5	
			17,25	
Rivington Hill and the Landmark with a Vane near Formby - -	125	22	6,5	8
			7	
			9,5	
Rivington Hill and the Landmark without a Vane near Formby - -	125	28	5,5	7,75
			9,75	
			10	
Belle-field Hill and Everton Flagstaff -	89	18	48	48,5
			49,25	
Delamere Forest and Heswell Hill -	56	47	6	7,25
			8,5	

At Go Hill.

Between	°	′	″	Mean.
Billinge Beacon and Heswell Hill -	90	48	9,25	10,75
			11	
			12	
Billinge Beacon and Rivington Hill -	41	51	22	23,75
			24,25	
			24,75	
Billinge Beacon and Chorley Down -	51	3	27,75	30,25
			29,25	
			29,75	
			32	
			32,25	
Billinge Beacon and Bleasdale Forest -	90	14	43,75	44,75
			44,25	
			46,25	
Billinge Beacon and Beryl Hill - -	131	34	46,25	49,5
			50	
			50,5	
			50,5	

At Knoll Hill.

Wittle Hill and Billinge Beacon -	76	45	19,75	23,5
			24,5	
			26,5	
Wittle Hill and Rivington Hill - -	56	46	54,75	57,25
			56	
			58,25	
			60	

At Wittle Hill.

Billinge Beacon and Knoll Hill -	98	54	55,5	58,5
			58	
			57,75	
			58,75	
			62	

Between	°	′	″	Mean.
Billinge Beacon and Mow Copt -	62	46	17,5	19
			18,5	
			20,75	
Billinge Beacon and Bleasdale Forest -	80	23	5,5	7,5
			6,5	
			7	
			10,75	
Billinge Beacon and Chorley Down -	30	43	16,75	19
			18	
			20,25	
			21,25	
Billinge Beacon and Rivington Hill -	16	41	44	45
			45	
			45,5	
Pendle Beacon and Bleasdale Forest -	34	46	30	32
			31,5	
			34,5	
Pendle Beacon and Boulsworth Hill -	37	17	21,5	23
			21,5	
			22,5	
			26,75	
Boulsworth Hill and Holme Moss -	87	16	40,25	40,75
			40,5	
			41	
			42,75	
Axedge and Holme Moss - -	37	7	29,5	
Axedge and Mow Copt - -	20	22	26,75	
Billinge Beacon and St. Mary's Spire, Manchester - - - -	62	44	7,25	11
			14,75	
At Axedge.				
Weaver Hill and Mow Copt - -	67	17	54,5	56
			57,5	
			59,75	

	°	′	″	Mean.
een				
Mow Copt and Wittle Hill - -	103	0	32	
At Beryl Hill.				
Black Comb and Bleasdale Forest -	94	28	39,75	40,25
			40	
			41,25	
Go Hill and Ashurst Beacon - -	16	4	39,25	40
			40	
			40,5	
Go Hill and Bleasdale Forest - -	91	29	53	55,5
			58	
Go Hill and Billinge Beacon - -	14	24	28	30,75
			33,5	
At The Calf.				
Ingleborough Hill and Black Comb -	95	56	11,75	12,25
			12,25	
			12,25	
			12,5	
Black Comb and Helvellin Mountain -	41	19	32,25	33
			34	
Cross Fell and Helvellin Mountain -	63	59	19	16
			17	
			11,75	
Ingleborough Hill and Shunnor Fell -	72	31	15	16
			16,25	
			17	
Black Comb and Lower Top of Sca-Fell	23	49	59,75	
Cross Fell and Shunnor Fell - -	86	13	36	39,25
			39,25	
			42,75	
Penrith Beacon and Cross Fell - -	26	5	54,75	56
			55,25	
			57,75	

Between	°	′	″	Mean
Black Comb and Coniston Fell - -	13	22	35	37
			36	
			40	
Penrith Beacon and High Pike -	19	31	4,25	5,25
			4,75	
			7	
At Black Comb.				
Ingleborough Hill and Bleasdale Forest	30	5	29,75	35
			36	
			36,5	
			37,75	
Ingleborough Hill and The Calf - -	22	28	15	19
			19,75	
			19,75	
			21	
Ingleborough Hill and Helvellin Mountain	65	15	42,75	43,5
			43,5	
			44	
Ingleborough Hill and Coniston Fell -	52	11	24,5	26
			24,5	
			27,5	
			27,5	
Ingleborough Hill and Lower Top of Sca-Fell	81	25	35,5	
The Calf and Coniston Fell - -	29	43	4,75	7
			5,5	
			6,5	
			8,25	
			9	
North Berule and Snea Fell, in the Isle of Man	2	28	48,75	49
			49,25	
Bleasdale Forest and Bodafon Fire Beacon in Anglesea - - -	82	14	33,5	
Bleasdale Forest and the Top of the Rivel Mountain in Caernarvonshire - -	78	25	7,5	

At Scilly Bank.

Between	°	′	″	Mean
Black Comb and Dent Hill - -	13	2	45	
			44	
			46	45,75
			46,5	
			47	
North Berule and Snea Fell - -	0	23	11	13
			15	
Dent Hill and Crif-Fell -	148	26	18,5	17
			18,5	
			14,75	

At Dent Hill.

Black Comb and Scilly Bank - -	163	27	31,25	33
			33,25	
			34,75	
Black Comb and Sca-Fell, highest top -	52	17	49	51
			52	
			53,25	
The two summits of Sca-Fell - -	3	3	48,5	49,25
			49,75	
			50,25	

At Wordeslow Hill.

Brandon Down and Pontop Pike	38	50	55,5	58
			56,25	
			56	
			57	
			61	
			61,25	
Brandon Down and Collier Law	19	6	42	42,25
			42,5	
Brandon Down and Hedgehope	91	29	18,5	20,75
			20,5	
			22	
			22	

Between	°	′	″	Mean
Brandon Down and Flagstaff on Sheriff Hill	76	45	5 7	6
At Pontop Pike.				
Wordeslow Hill and Simonside Hill -	111	2	55,25 57,5 58,75 58,75	57,75
Wordeslow Hill and Brandon Down -	59	47	18 19 20 21,75	19,75
Collier Law and Brandon Down -	74	53	55,5	
Wordeslow Hill and Signal Staff on Marston Hill near Sunderland - -	30	9	48 52	50
At Collier Law.				
Wordeslow Hill and Simonside Hill -	75	12	27 27,5 28,25 30	28
Pontop Pike and Brandon Down -	44	47	7,75 7,75 8,25 10,75 11,5 13	10
Wordeslow Hill and Pontop Pike -	25	34	17,25 19 20,75	19
Cross Fell and Kilhope Law - -	21	34	43 43,5 44 44,5 45,75	44

				"	Mean.
Cross Fell and Water Crag - -	64	2		0 0,25	0
Cross Fell and The Cheviot - -	95	1		9,75 10,75 13,5	11,25
Cross Fell and Simonside Hill -	103	33		19,75 24 24,5	22,75

At Water Crag.

Cross Fell and Collier Law - -	52	19		52,5 53 54,5 54,75	53,5
Black Hambleton and Great Whernside	62	22		45,5 47,5	46,5
Black Hambleton and Brandon Down	66	3		10,25 13	11,5
Collier Law and Helvellin Mountain -	93	3		8,5 10,5	9,5
Collier Law and Kilhope Law -	28	17		50 50,25 52,5	50,5
Cross Fell and Shunnor Fell - -	93	12		25,25 28,25	26,75
Shunnor Fell and Great Whernside -	61	1		26,5 28,5 30	28,5

At Cross Fell.

Water Crag and Helvellin Mountain -	99	59		21	22
Collier Law and The Cheviot - -	62	47		30,25 34,75	32,5

Between	°	′	″	Mean.
The Calf and High Pike - -	87	59	9,25 11,5	10,5
The Calf and Helvellin Mountain -	57	48	21,25 27,5	24,5
Water Crag and Shunnor Fell -	15	35	33,75 36,75 37,75	36
Skiddaw and High Pike - -	8	3	8,5 9,75	9
The Cheviot and Wisp Hill - -	89	15	47,75 48,5 50	48,75
The Cheviot and Simonside Hill -	13	11	5,75 6 9,25	7
At High Pike.				
Cross Fell and Wisp Hill - -	85	1	54,5 56,25	55,5
Cross Fell and Crif-Fell - -	144	22	9,5 11,75	10,5
At Alnwick Moor.				
Rufflaw and Simonside Hill - -	40	34	53,25 53,75 55	54
The Cheviot and Rufflaw - -	106	58	54,5 55,75 56,5	56
At Rufflaw.				
Collier Law and Simonside Hill -	103	32	28 31,75	30
The Cheviot and Collier Law - -	124	36	49,5 50	49,75

Between	°	′	″	Mean.
Alnwick Moor and The Cheviot -	38	55	41,25 41,25 42,75 42,75	42
Alnwick Moor and Simonside Hill -	60	0	5 5,5 6,25	5,5
Collier Law and Pontop Pike - -	14	52	49,5 53,5	51,5
At Crif-Fell.				
Scilly Bank and Skiddaw -	38	11	47,75 48,25	48
Cross Fell and Wisp Hill - -	61	49	33,75 37 37,25	36
Wisp Hill and Queensberry Hill	44	6	37 39 43	39,75
Cross Fell and Helvellin Mountain -	29	52	15 20,5 21,75	19
Skiddaw and Dent Hill - -	33	24	18,5	
Skiddaw and High Pike - -	10	37	34,25 35,5	35
Cross Fell and Skiddaw - -	26	36	10,25 11,25 12	11,25
At Wisp Hill.				
The Cheviot and Cross Fell -	87	14	7 10,75	9
The Cheviot and Sayrs Law - -	50	36	13,25 16,25 18,75	16

Between	°	′	″	Mean.
The Dunrigs and Sayrs Law - -	39	42	50,5	52,5
			50,5	
			53,5	
			56	
The Cheviot and Crif-Fell - -	160	55	36,75	38,75
			38,75	
			40,75	
Crif-Fell and Queensberry Hill -	41	42	31,25	33,75
			34,5	
			35,5	
At Sayrs Law.				
Wisp Hill and The Cheviot - -	55	50	17,25	18,25
			17,25	
			18,5	
			20	
Wisp Hill and The Dunrigs - -	30	1	38	39,5
			39,25	
			40	
			41,25	
The Cheviot and East Lomond Hill -	178	40	19,25	22,25
			20,5	
			21,75	
			22	
			27,25	
The Cheviot and Mordington Hill -	44	34	25,75	27,25
			27	
			28,75	
Lighthouse on the Isle of May and Lighthouse on Inch Keith - -	64	55	17,25	19,5
			21,5	
Lighthouse on the Isle of May and Lighthouse on Leith Pier - -	75	4	33,5	
Lighthouse on the Isle of May and Kirk Gate Spire, Leith - -	76	25	21	

At Lumsdane Hill.

Between	°	′	″	Mean.
Sayrs Law and Blackheddon	107	25	26,25	
			28,25	
			29,75	29,5
			30	
			33,5	
Sayrs Law and East Lomond Hill	43	48	40	
			42,25	42
			43,75	
Largo Law and Sayrs Law -	52	11	52,5	
			53,75	
			55	55,5
			57,75	
			58,75	
Sayrs Law and West Lomond Hill	42	18	9,5	
			10	11,5
			15,25	
The Cheviot and Blackheddon	25	40	40	
			45,75	44
			46,5	
At Mordington Hill.				
The Cheviot and Sayrs Law - -	89	34	0,25	
			3,75	2,75
			4,25	
The Cheviot and Blackheddon	32	42	59	
			59,5	
			58,5	
			60	60,25
			60,5	
			60,75	
			63,5	
Blackheddon and Sayrs Law -	122	17	2	
			3,5	3
			3,75	

At Blackheddon.

Between					Mean.
Lumsdane Hill and The Cheviot -	112	24	35		
			35,5		
			37		37,25
			38		
			41		
Mordington Hill and The Cheviot -	117	9	53		
			59		58,25
			62,5		
The Cheviot and Sayns Law - -	79	15	28,5		
			28,5		29
			30		
The Cheviot and Simonside Hill -	34	20	49		
			51,5		53
			55		
			55,75		

ART. II. *Angles of Elevation or Depression of the several Stations in the preceding Article; also the Angles of Elevation of several remarkable Hills or Mountains, observed in the Trigonometrical Survey of* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809.

At Holland Hill.

The ground at		°	′
Stathern Point - -	*depr.*	5	15
Sutton Ashfield Station -	*elev.*	7	12
Orpit Heights - -	*elev.*	12	0
Bardon Hill - -	*elev.*	2	35

At Orpit Heights.

Hathersage - -	*elev.*	6	18
Sutton Ashfield Station -	*depr.*	24	0
Holland Hill - -	*depr.*	24	50
Weaver Hill - -	*elev.*	3	22
Bardon Hill - -	*depr.*	13	40
Castle Ring - -	*depr.*	22	15

At Castle Ring.

The ground at		°	′
Axedge - -	*elev.*	5	54
Brayding Hill, N. Wales -	*depr.*	11	50
The Wrekin - -	*elev.*	3	12
Weaver Hill - -	*elev.*	4	5
Orpit Heights -	*depr.*	5	30
Bar Beacon - -	*depr.*	7	48
Red Clay Hill - -	*elev.*	7	9
Bardon Hill - -	*depr.*	6	48

At Lilleyhoe.

Tharfield - -	*depr.*	6	19
Kinsworth - -	*elev.*	9	50

The ground at		′	″
Bowbrickhill -	*depr.*	7	45
Lidlington - -	*depr.*	16	0

At Royston.

Lilleyhoe - -	*elev.*	1	39
Lidlington - -	*depr.*	7	57
Tharfield - -	*elev.*	56	33
Orwell - - -	*depr.*	18	27
Maddingly - -	*depr.*	17	33
Top of Ely Minster Steeple	*depr.*	14	24
Top of King's College Chapel	*depr.*	17	45
Top of the Vane in the midst of the Trees on Gog Magog Hills - -	*depr.*	11	42

At Orwell.

Top of Tharfield Church Tower	*elev.*	17	41
Royston - -	*elev.*	10	18
Balsham Church Tower -	*elev.*	3	15
Balsham Station - -		0	0
Maddingly Station -	*depr.*	10	18
Lilleyhoe - -	*elev.*	3	6

At Maddingly.

Tharfield - -	*elev.*	11	2
Orwell - -	*elev.*	4	31
Balsham - -	*elev.*	5	18
Haddenham - -	*depr.*	20	25

At Balsham.

Tharfield - -	*depr.*	5	12
Newmarket Station -	*depr.*	6	51

At Brandon.

Methwold - -	*depr.*	8	30
Little Port - -	*depr.*	10	36
Ely Minster Steeple, Top of	*depr.*	0	57
Newmarket - -	*depr.*	0	24
Bartenham -	*depr.*	0	11
Thetford - -	*depr.*	2	37
Oxborough - -	*depr.*	4	30

At Clifton Beacon.

The ground at		′	″
Hathersage -	*elev.*	29	12
Bradfield Point -	*elev.*	28	10
Staincross Heights -	*depr.*	1	45
Gringley Beacon -	*depr.*	13	40
North end of the Base } Misterton	*depr*	32	57
South end of ditto } Carr.	*depr.*	28	51

At Hathersage.

Orpit Heights - -	*depr.*	20	27
Ravage Top - -	*depr.*	11	1
Lord's Seat - -	*elev.*	23	45
Black-kilder Hill -	*elev.*	33	9
Pit Hill - -	*elev.*	23	51
Bradfield Point - -	*depr.*	14	12
Staincross Heights - -	*depr.*	38	7

At Lord's Seat.

Weaver Hill - -	*depr.*	26	27
Ravage Top - -	*depr.*	28	29
Axedge - -	*depr.*	5	26
Pit Hill - -	*depr.*	4	32
Hathersage - -	*depr.*	29	48
Black-kilder Hill -	*elev.*	56	30

At Weaver Hill.

The Wrekin - -	*depr.*	11	24
Castle Ring - -	*depr.*	20	8
Bardon Hill - -	*depr.*	17	26
Orpit Heights - -	*depr.*	13	21
Barren-Edge - -	*elev.*	2	14
Pit Hill - -	*elev.*	0	30
Black-kilder Hill - -	*elev.*	12	51
Axedge - -	*elev.*	18	56
Mow Copt - -	*depr.*	10	51
Ashley Heath -	*depr.*	21	15
Lord's Seat - -	*elev.*	7	45

At Cleeve.

Malvern Hills, highest point	*elev.*	3	17
Breadon Hill - -	*depr.*	11	0
Broadway Beacon -	*depr.*	7	30
Stow on the Wold - -	*depr.*	19	28

The ground at May Hill	*depr.*	11	15

At Malvern Station.

Cradle Mountain, Wales	*elev.*	5	30
Brown Clay Hill	*depr.*	0	20
Broadway Beacon	*depr.*	18	36
Breadon Hill (Building)	*depr.*	26	45
Cleeve Hill	*depr.*	17	20
May Hill	*depr.*	23	30

At May Hill.

Malvern Station	*elev.*	11	12
Breadon Hill (Building)	*depr.*	7	38
Broadway Beacon	*depr.*	8	56
Cleeve Hill	*depr.*	3	57
Symmond's Hall	*depr.*	12	15
Trelleg Beacon	*depr.*	4	6

At Trelleg Beacon.

Mynydd Mane	*elev.*	14	45
Cradle Mountain	*elev.*	37	6
Symmond's Hall	*depr.*	17	25
May Hill	*depr.*	8	2

At Mynydd Mane.

Capellante	*elev.*	16	3
Beacon of Brecknock	*elev.*	32	39
Cradle Mountain	*elev.*	28	0
Trelleg Beacon	*depr.*	26	51
Tymbarlum Mountain	*depr.*	35	54
Garth Hill	*depr.*	32	0
Llangeinor Mountain	*elev.*	1	56
Dundry Beacon	*depr.*	29	3

At Garth Hill.

Capellante	*elev.*	29	18
Beacons of Brecknock	*elev.*	41	39
Cradle Mountain	*elev.*	24	18
Mynydd Mane	*elev.*	21	27
Dunkery Beacon	*elev.*	5	4
Ogmoor Down	*depr.*	35	39
Llangeinor Mountain	*elev.*	35	35

At Ogmoor Down.

The ground at Llangeinor Mountain	*elev.*	51	9
Garth Hill	*elev*	26	9
Dunkery Beacon	*elev.*	33	45
Cefn Bryn	*depr.*	1	51

At Llangeinor Mountain.

Margam Down	*depr.*	34	24
Trecastle Beacon	*elev.*	20	3
Cradle Mountain	*elev.*	5	30
Pen y Voel	*depr.*	8	57
Mynydd Mane	*depr.*	17	54
Garth Hill	*depr.*	46	57
Capellante	*elev.*	15	41
Dunkery Beacon	*depr.*	15	55
Beacons of Brecknock	*elev.*	31	0

At Margam Down.

Lannon	*depr.*	14	45
Llangeinor Mountain	*elev.*	1° 7	21
O[illegible]down	*depr.*	59	24
Dunkery Beacon	*elev.*	1	48

At Cefn Bryn.

Lannon	*elev.*	13	4
Trecastle Beacon	*elev.*	36	55
Llangeinor Mountain	*elev.*	25	6
Margam Down	*elev.*	11	9
Precelly Top	*elev.*	6	12
Dunkery Beacon	*elev.*	5	9
Marros Beacon	*depr.*	12	19
Hangman Hill	*elev.*	1	2
Brenin Vour		0	0
Ogmoor Down	*depr.*	16	48

At Marros Beacon.

Cefn Bryn	*depr.*	6	19
Lannon	*elev.*	6	36
Precelly Top	*elev.*	44	15

At Lannon.

Cefn Bryn	*depr.*	19	45
Marros Beacon	*depr.*	19	45

The ground at		′	″
Precelly Top - -	*elev.*	9	16
Brenin Vour -	*depr.*	0	54
New Inn Hill Station -	*elev.*	3	10
Trecastle Beacon - -	*elev.*	44	0
Llangeinor Mountain -	*elev.*	13	4
Margam Down -	*depr.*	3	25
Beacons of Brecknock -	*elev.*	27	43

At Precelly Top.

Beacons of Brecknock -	*depr.*	9	20
Trecastle Beacon - -	*depr*	5	15
Lannon - -	*depr.*	29	30
Brenin Vour - -	*depr.*	45	39

At Plumstone Down.

St. David's Head -	*depr.*	3	43
Pencar Rock near Fishguard	*elev.*	3	33
Cwm Kerrwn Mountain -	*elev.*	50	30
Precelly Top - -	*elev.*	55	33
St. Ann's Hill - -	*depr.*	21	12

At St. Ann's Hill.

Top of Milford Church Steeple	*depr.*	10	24
Summit of Sir H. Owen's Gazebo	*elev.*	2	28
Top of Warren Church Spire	*elev.*	2	30
Cupola of St. Ann's Lighthouse	*depr*	28	14
Highest Part of Ramsey Isle	*depr.*	1	27
Plumstone Down - -	*elev.*	11	51
Precelly Top - -	*elev.*	1° 1	33

At Newton Down.

St. Ann's Head - -	*depr.*	9	39
Plumstone Down -	*elev.*	11	48
St. David's Head - -	*elev.*	1	48
Precelly Top - -	*elev.*	53	16
Marros Beacon - -	*elev.*	4	3
Highgate Mountain -	*depr.*	5	55

At New Inn Hill.

Lannon - -	*depr.*	15	56
Precelly Top - -	*elev.*	6	53
Brenin Vour - -	*depr.*	1	29
Capel Kynon - -	*depr.*	12	23

The ground at		′	″
Talsarn Hill -	*depr.*	8	30
Beacons of Brecknock -	*elev.*	22	8

At Tulsarn Hill.

Tregarron Down -	*elev.*	28	11
Llandowi Mountain -	*elev.*	22	57
Trecastle Beacon - -	*elev.*	20	58
New Inn Hill - -	*depr.*	5	8
Brenin Vour - -	*depr.*	5	50
Precelly Top - -	*elev.*	0	10
Capel Kynon - -	*depr*	10	44
Tregarron Down - -	*elev.*	28	15
Plynlimmon - -	*elev.*	29	15
Aberystwith Station -	*depr*	33	41
Cader Idris -	*elev.*	21	6

At Capel Kynon.

New Inn Hill - -	*elev.*	2	50
Brenin Vour - -	*elev.*	5	57
Precelly Top - -	*elev.*	14	13
Tregarron Down - -	*elev.*	7	27
Plynlimmon - -	*elev.*	12	38

At Tregarron Down.

Plynlimmon - -	*elev.*	20	18
Dwggan Mountain -	*elev.*	23	36
Beacons of Brecknock -	*elev.*	12	25
Trecastle Beacon - -	*elev.*	12	30
Talsarn Hill -	*depr.*	39	27
Aberystwith Station -	*depr.*	57	27
Snowdon - -	*depr.*	2	21
Cader Idris - -	*elev.*	9	13
Plynlimmon - -	*elev.*	20	30
Llandowi Mountain -	*depr.*	20	44
Barrow near New Inn -	*depr.*	22	41
Talsarn Hill -	*depr.*	38	0
Capellante - -	*elev.*	2	36
Precelly Top - -	*depr.*	17	15
Cradle Mountain -	*elev.*	2	18
Llandinam Mountain -	*depr.*	4	40

At Aberystwith Station.

Brigny Hill - -	*elev.*	27	27

The ground at		°	′	″
Plynlimmon	*elev.*	1°	38	50
Cader Idris	*elev.*	1	12	25
Pengarn	*elev.*		32	7
Snowdon	*elev.*		28	52
Rhiw Mountain	*depr.*		3	42
Tregarron Down	*elev.*		41	58
Talsarn Hill	*elev.*		21	58

At Llandinam Mountain.

Dwggan Mountain			0	0
Tregarron Down	*depr.*		13	6
Plynlimmon	*elev.*		19	22
Arran Fowddy	*elev.*		15	9
Long Mountain	*depr.*		26	1
Stow Hill	*depr.*		24	7
Radnor Forest	*elev.*		5	3
Cradle Mountain	*elev.*		2	22
Beacon of Brecknock	*elev.*		3	27
Capellante Mountain	*depr.*		6	21
Cader Idris	*elev.*		14	21
Brown Clay Hill	*depr.*		14	21

At Stow Hill.

Radnor Forest	*elev.*		42	6
The Beacon of Brecknock	*elev.*		11	0
Llandinam Mountain	*elev.*		9	33
Long Mount Pole	*elev.*		7	11
Malvern Station	*depr.*		13	57
The Wrekin	*depr.*		12	30
Brown Clay Hill	*elev.*		5	32
Long Mountain	*depr.*		10	0
Cradle Mountain	*elev.*		16	19

At Radnor Forest.

Cradle Mountain	*elev.*		4	0
Trecastle Beacon	*depr.*		5	41
Beacon of Brecknock	*elev.*		4	15
Capellante Mountain	*depr.*		8	20
Dwggan Mountain	*depr.*		12	0
Malvern Station	*depr.*		27	45
Llandinam Mountain	*depr.*		17	15

At Symmond's Hall.

The ground at			′	″
Malvern Station	*elev.*		0	56
St. Ann's Hill	*depr.*		6	48
May Hill	*depr.*		0	49
Trelleg Beacon	*depr.*		0	9

At Rhiw Mountain.

Rivel Mountain	*elev*		38	33
Bwlch Mawr	*elev.*		19	9
Snowdon	*elev.*		48	4
Ynaliog Mountain	*depr.*		50	18
Holyhead Mountain	*depr.*		18	0
Llwydiart Mountain	*depr.*		22	32

At Llwydiart Mountain.

Llanelian Mountain	*elev.*		0	26
Great Orme's Head	*elev.*		1	56
Penmaen Mawr	*elev.*	1°	2	21
Carnedd Llewellyn	*elev.*	2	29	21
Carnedd David	*elev.*	2	28	29
Snowdon	*elev.*	1	59	45
Gerwyn Goch	*elev.*		27	44
Rivel Mountain	*elev.*		27	44
Holyhead Mountain	*depr.*		1	39
Moel Rhyddlad	*depr.*		9	18
Ynaliog Mountain	*depr.*		13	22
Rhiw Mountain	*depr.*		5	29
Bwlch Mawr	*elev.*		28	15

At Llanelian Mountain in Anglesea.

Snowdon	*elev.*	1°	8	59
Carnedd David	*elev.*	1	18	10
Carnedd Llewellyn	*elev.*	1	19	44
Penmaen Mawr	*elev.*		29	9
Llanelian Mountain	*elev.*		3	6
Bwlch Mawr	*elev.*		15	23
Gerwyn Goch	*elev.*		15	23
Rivel Mountain	*elev.*		16	21
Great Orme's Head	*depr.*		5	12
Llwydiart Mountain	*depr.*		8	30
Holyhead Mountain	*depr.*		1	24
Moel Rhyddlad	*depr.*		11	57
A Mountain in Cumberland	*depr.*		10	33

The ground at		′	″
A sharp-pointed Mountain near the last	*depr.*	13	6
Southwest Mountain in the Isle of Man	*depr.*	8	47
Northeast Mountain in the Isle of Man	*depr.*	7	33

At Moel Rhyddlad.

Llanelian Mountain	*elev.*	2	26
Bodafon Beacon	*elev.*	2	5
Carnedd Llewellyn	*elev.*	58	34
Carnedd David	*elev.*	58	40
Snowdon	*elev.*	58	10
Bwlch Mawr	*elev.*	18	23
Gerwyn Goch	*elev.*	19	20
Rivel Mountain	*elev.*	21	15
Hill near Nevin	*elev.*	1	55
Holyhead Mountain	*elev.*	20	51
Penmaen Mawr	*elev.*	16	55
Great Orme's Head	*depr.*	6	0
Llwydiart Mountain	*depr.*	4	24
Rhiw Mountain	*depr.*	5	11
Ynaliog Mountain	*depr.*	12	36

At Plynlimmon.

Cader Idris	*elev.*	11	0
Arrennig	*depr.*	5	5
Radnor Forest	*depr.*	14	57
Llandinam Mountain	*depr.*	30	15
Tregarron Down	*depr.*	34	9
Rodney's Pillar	*depr.*	37	3
Aberystwith Station	*depr.*	10 47	55
Berwin Mountain	*depr.*	7	30
Ynaliog Mountain	*depr.*	42	30
Rhiw Mountain	*depr.*	38	57
Rivel Mountain	*depr.*	25	45
Arran Fowddy	*elev.*	5	51

At Long Mountain.

Radnor Forest	*elev.*	10	3
Llandinam Mountain	*elev.*	9	12
Arran Fowddy	*elev.*	29	1
Arrennig	*elev.*	16	3

The ground at		′	″
Berwin Mountain	*elev.*	36	48
Cader Ferwyn	*elev.*	29	28
Cyrn Moelfre	*elev.*	10	7
Cader Idris	*elev.*	16	37
Stow Hill	*depr.*	4	56
Rodney's Pillar	*depr.*	18	15
Ashley Heath	*depr.*	23	18
The Wrekin	*depr.*	8	27
Cyrney Brain Mountain	*elev.*	1	42

At Brown Clay Hill.

Bar Beacon	*depr.*	34	10
Malvern Station	*depr.*	20	12
Waltham Hill	*depr.*	30	54
The Wrekin	*depr*	27	29
Long Mount Pole	*depr.*	10	9
Stow Hill	*depr.*	20	30
Rodney's Pillar	*depr.*	23	53
Ashley Heath	*depr.*	32	21

At Ashley Heath.

Highest Part of Beeston Castle	*depr.*	15	21
Delamere Forest	*depr*	14	41
Mow Copt	*elev.*	7	48
The Wrekin	*elev.*	11	46
Long Mount Pole	*elev.*	5	27
Long Mountain	*depr.*	2	54
Rodney's Pillar	*depr.*	2	54
Highest Point of Hawkeston Obelisk	*depr.*	3	51
Brown Clay Hill	*elev.*	8	15
Cyrn y Brain Mountain	*elev.*	7	24
Weaver Hill	*elev.*	4	9

At Cyrn y Brain Mountain.

Arran Fowddy	*elev.*	16	4
Arrennig	*elev.*	15	21
Carnedd David	*elev.*	16	27
Carnedd Llewellyn	*elev.*	18	44
Cader Ferwyn	*elev.*	32	46
Snowdon	*elev.*	15	33
Delamere Forest	*depr.*	43	12
Ashley Heath	*depr.*	33	0

The ground at		°	′
Rodney's Pillar -	*depr.*	27	12
Long Mountain	*depr.*	22	24
Long Mount Pole -	*depr.*	16	28
The Wrekin -	*depr.*	22	54
Moel Fammau	*depr.*	4	23
Llanelian Mountain	*depr.*	27	39

At Llanelian Mountain in Denbighshire.

Arrennig - -	*elev.*	58	12
Cader Ferwyn - -	*elev.*	22	33
Cyrn y Brain Mountain -	*elev.*	7	3
Moel Fammau -	*elev.*	14	30
Llanelian Mountain -	*depr.*	22	59
Garreg Mountain - -	*depr.*	17	35
Billinge Beacon - -	*depr.*	24	15
Great Orme's Head -	*depr.*	40	57

At Garreg Mountain.

Snowdon - -	*elev.*	36	58
Denbighshire, Llanelian Mountain - - -	*elev.*	3	
Anglesea, Llanelian Mountain	*depr.*	18	
Great Orme's Head -	*depr.*	12	
Arrennig - -	*elev.*	28	
Arran Fowddy - -	*elev.*	25	
Cyrn y Brain Mountain -	*elev.*	29	
Delamere Forest - -	*depr.*	14	
Moel Fammau - -	*elev.*	1°	3

At West End of Base.

Moelfre Issa - -	*elev.*	3°	16
Cave Hill - -	*elev.*	3	27
Great Orme's Head -	*elev.*	32	
Gwaunysgaer Down -	*elev.*	51	
Top of Staff at East End of Base	*depr.*	0	

At East End of Base.

Moel Morwith -	*elev.*	45	
Moel Fammau -	*elev.*	1°	26
Moelfre Issa	*elev.*	2	9
Great Orme's Head	*elev.*	12	
Gwaunysgaer Down	*elev.*	46	
Top of Staff at West End of Base	*depr.*	0	

At Moelfre Issa.

The ground at		′	″
Moel Fammau - -	*elev.*	30	15
Llanelian Mountain -	*elev.*	15	15
Cyrn y Brain Mountain -	*elev.*	16	21
Top of Staff at West End of Base	*depr.*	3° 41	54
Top of Staff at East End of Base	*depr.*	2 46	2
Gwaunysgaer Down -	*depr.*	24	6

At Gwaunysgaer Down.

Moel Fammau - -	*elev.*	51	12
Moelfre Issa - -	*elev.*	20	4

At Burleigh Moor.

Barnaby Moor - -	*elev.*	41	35
Roseberry Top - -	*elev.*	59	16
Wordeslow Hill - -	*depr.*	6	51
Easington Heights -	*elev.*	7	12
Danby Beacon - -	*elev.*	23	36
Brandon Mount -	*depr.*	2	47

At Easington Heights.

Fair Head - -	*elev.*	10	27
Danby Beacon - -	*elev.*	26	15
Blackhill Stone -	*elev.*	34	9
Botton Head - -	*elev.*	30	6
Barrow on Gisbro' Hill -	*elev.*	25	30
Barnaby Moor - -	*elev.*	1	27
Stow Brow - -	*depr.*	1	28

At Botton Head.

Barnaby Moor - -	*depr.*	47	30
Westerdale - -	*depr.*	19	40
Loosehoe - -	*depr.*	10	31
Hambleton Down -	*depr.*	26	45
Easington Heights - -	*depr.*	40	50

At Loosehoe.

Botton Head - -	*elev.*	3	15
Westerdale - -	*depr.*	1	9
Roseberry Top -	*depr.*	27	48
Easington Heights -	*depr.*	44	15

The ground at		′	″
Fair Head	*depr.*	33	54
Stow Brow	*depr.*	27	54
Wilton Beacon	*depr.*	23	30
Hambleton Down	*depr.*	21	47

At Wilton Beacon.

Kirby Underdale		0	0
Botton Head	*elev.*	2	53
Loosehoe	*elev.*	3	30
Hambleton Down	*depr.*	3	37
Hunsley Beacon	*depr.*	17	29

At Heswell Hill.

Cyrn y Brain Mountain	*elev.*	38	28
Go Hill Station	*depr.*	10	57
Billinge Beacon	*depr.*	6	38
Belle-field Hill	*depr.*	9	11
Delamere Forest	*depr.*	1	52

At Belle-field Hill.

Cyrn y Brain Mountain	*elev.*	17	1
Delamere Forest	*elev.*	10	21
Mow Copt	*elev.*	13	29
Billinge Beacon	*depr.*	20	50
Heswell Hill	*depr.*	7	48
Rivington Hill	*elev.*	32	5
Knoll Hill	*elev.*	9	37

At Billinge Beacon.

Rivington Hill	*elev.*	45	7
Chorley Down	*elev.*	27	15
Delamere Forest	*depr.*	8	45
Knoll Hill	*elev.*	15	3
Cyrn y Brain Mountain	*elev.*	7	22
Belle-field Hill	*depr.*	15	37
Heswell Hill	*depr.*	15	16
Garreg Mountain	*depr.*	5	36
Go Hill Station	*depr.*	28	9
Beryl Hill	*depr.*	23	7

At Go Hill.

Bleasdale Forest	*elev.*	19	24
Chorley Down	*elev.*	31	36

The ground at		′	″
Rivington Hill	*elev.*	41	21
Billinge Beacon	*elev.*	20	21
Heswell Hill	*depr.*	2	28
Beryl Hill	*depr.*	11	52
Pendle Hill	*elev.*	18	57

At Wittle Hill.

Knoll Hill	*depr.*	1° 4	27
Holme Moss	*elev.*	5	1
Boulsworth Hill	*elev.*	2	51
Pendle Hill	*elev.*	7	33
Ingleborough	*elev.*	1	39
Bleasdale Forest	*depr.*	1	39
Chorley Down	*depr.*	21	36
Rivington Hill	*depr.*	7	12
Billinge Beacon	*depr.*	37	28
Mow Copt	*depr.*	22	42
Axedge	*depr.*	7	48

At Axedge.

Rivington Hill	*depr.*	19	7
Wittle Hill	*depr*	17	31
Holme Moss	*depr.*	4	40
Lord's Seat Station	*depr.*	3	53
Hathersage	*depr.*	19	48
Weaver Hill	*depr.*	30	23
Mow Copt	*depr.*	39	41

At Staineros Heights.

Bradfield Point	*elev.*	39	48
Holme Moss	*elev.*	49	52
Ledstone Beacon	*depr.*	17	20
Clifton Beacon	*depr.*	10	3
Hathersage	*elev.*	24	54
Rumbles Moor	*elev.*	6	4

At Boulsworth Hill.

Ingleborough	*elev.*	5	35
Cam Fell	*elev.*	3	59
Great Whernside	*elev.*	6	32
Rumbles Moor	*depr.*	24	42
Holme Moss	*elev.*	5	18
Wittle Hill	*depr.*	24	42

The ground at		′	″
Rivington Hill	*depr.*	14	40
Bleasdale Forest	*depr.*	9	3
Pendle Hill	*elev.*	6	12

At Ingleborough Hill.

Coniston Fell	*depr.*	8	11
Black Comb	*depr.*	22	24
Helvellin Mountain	*depr.*	0	53
The Calf	*depr.*	19	50
Whernside in Ingleton Fells	*elev.*	2	21
Shunnor Fell	*depr.*	8	15
Great Whernside	*depr.*	9	35
Pennigant	*depr.*	13	0
Pendle Hill	*depr.*	25	20
Bleasdale Forest	*depr.*	31	4
Boulsworth Hill	*depr.*	27	26

At Rumbles Moor.

Black Hambleton	*depr.*	15	44
Hambleton Down	*depr.*	17	15
Ledstone Beacon	*depr.*	38	41
Bradfield Point	*depr.*	13	8
Holme Moss	*elev*	5	2
Boulsworth Hill	*elev.*	13	12
Pendle Hill	*elev.*	9	5
Cam Fell	*elev.*	18	39
Great Whernside	*elev.*	25	34
Pennigant	*elev.*	15	24

At Ledstone Beacon.

Hambleton Down	*elev.*	2	50
Wilton Beacon	*elev.*	0	3
Rumbles Moor	*elev.*	20	36
Staincross Heights	*elev.*	3	18

At Black Hambleton.

Collier Law	*depr.*	9	24
Great Whernside	*elev.*	9	30
Water Crag	*elev.*	3	26
Cross Fell	*elev.*	0	15
Rumbles Moor	*depr.*	13	12
Ledstone Beacon	*depr.*	30	42
Hambleton Down	*depr.*	28	24

The ground at			
Wilton Beacon	*depr.*	22	2
Botton Head	*elev.*	12	45

At Hambleton Down.

Wilton Beacon	*depr.*	17	5
Botton Head	*elev.*	17	6
A Hill near Stokesley	*elev.*	14	12
Black Hambleton	*elev.*	22	15
Water Crag	*elev.*	2	18
Rumbles Moor	*depr.*	8	44
Ledstone Beacon	*depr.*	28	12
Great Whernside	*elev.*	12	0

At Brandon Down.

Collier Law	*elev.*	38	45
Pontop Pike	*elev.*	6	51
Hambleton Down	*depr.*	7	59
A Hill near Stokesley	*depr.*	0	15
Botton Head	*depr.*	1	14
Burleigh Moor	*depr.*	17	30
Easington Heights	*depr.*	17	3
Wordeslow Hill	*depr.*	18	0
Sherf Hill	*depr.*	21	38
Water Crag	*elev.*	19	18

At Wordeslow Hill.

Botton Head	*elev.*	3	6
Water Crag	*elev.*	10	2
Brandon Down	*elev.*	8	2
Collier Law	*elev.*	17	55
Pontop Pike	*elev.*	12	22
Simonside Hill	*depr.*	0	50
The Cheviot	*elev.*	5	24
Hedgehope	*elev.*	2	58
Marston Hill	*depr.*	32	14

At Pontop Pike.

Simonside Hill	*depr.*	2	48
Ruffaw	*depr.*	20	43
Wordeslow Hill	*depr.*	23	58
Brandon Down	*depr.*	14	56
Collier Law	*elev.*	35	21
Kilhope Law	*elev.*	28	6

At Collier Law.

The ground at		′	″
Cross Fell	*elev.*	30	5
Kilhope Law	*elev.*	21	43
Water Crag	*elev.*	4	17
Brandon Down	*depr.*	48	42
Pontop Pike	*depr.*	44	36
Simonside Hill	*depr.*	18	1
Hedgehope	*depr.*	9	5
Wordeslow Hill	*depr.*	38	42

At Water Crag.

Skiddaw	*depr.*	5	54
Saddleback	*depr.*	5	50
Penrith Beacon	*depr.*	39	21
Kilhope Law	*depr.*	10	6
Collier Law	*depr.*	23	9
Brandon Down	*depr.*	41	3
Black Hambleton	*depr.*	31	42
Great Whernside	*depr.*	4	57
Whernside in Ingleton Fells	*depr.*	0	38
Shunnor Fell	*elev.*	11	6
Nine Standards	*depr.*	8	18
Cross Fell	*elev.*	10	46

At Cross Fell.

Helvellin Mountain	*depr.*	5	2
Skiddaw	*depr.*	7	43
The Calf	*depr.*	28	30
The Cheviot	*depr.*	23	44
Wisp Hill	*depr.*	30	48
Hedgehope	*depr.*	27	0
Simonside Hill	*depr.*	38	9
Collier Law	*depr.*	46	35
Water Crag	*depr.*	28	36
Great Whernside	*depr.*	24	43
Shunnor Fell	*depr.*	23	59
Crif-Fell	*depr.*	33	6
Bow Fell	*depr.*	11	51
High Pike	*depr.*	31	39
Saddleback	*depr.*	12	9
Grisdale Pike	*depr.*	19	54
Cold Fell	*depr.*	47	27
Daffenside Beacon	*depr.*	1° 4	31

At Beryl Hill.

The ground at		′	″
Black Comb	*elev.*	26	28
Bleasdale Forest	*elev.*	49	0
Go Hill	*elev.*	4	25
Billinge Beacon	*elev.*	0	7

At The Calf.

Black Comb	*depr.*	17	43
Coniston Fell	*elev.*	1	19
Helvellin Mountain	*elev.*	16	0
High Pike	*depr.*	13	8
Penrith Beacon	*depr.*	45	8
Cross Fell	*elev.*	10	31
Shunnor Fell	*elev.*	2	31
Whernside in Ingleton Fells	*elev.*	7	11
Ingleborough	*elev.*	0	34
Pennigant	*depr.*	5	6
Sca-Fell, lower Top	*elev.*	9	48
Sca-Fell, highest Top	*elev.*	11	30
Saddleback	*elev.*	3	4

At Black Comb.

Coniston Fell	*elev.*	33	13
Helvellin Mountain	*elev.*	24	26
Sca-Fell, lower Top	*elev.*	48	58
Sca Fell, highest Top	*elev.*	50	40
The Pillar	*elev.*	31	15
Bleasdale Forest	*depr.*	19	2
Ingleborough	*depr.*	7	25
The Calf	*depr.*	7	43
Bow Fell	*elev.*	38	23
Kirk Fell	*elev.*	20	31
Snea Fell	*depr.*	16	0
North Berule	*depr.*	17	27
Lower Cairns Moor	*depr.*	20	5
Bengarn	*depr.*	27	3
Crif-Fell	*depr.*	19	15
Scilly Bank	*depr.*	49	14

At Scilly Bank.

North Berule	*elev.*	7	9
Snea Fell	*elev.*	7	45
Crif-Fell	*elev.*	22	21

The ground at		′	″
Grasmere Fell	*elev.* 2°	3	27
Skiddaw	*elev.* 1	24	15
Black Comb	*elev.* 31	31	
Bengarn	*elev.* 8	0	

At Dent Hill.

Sca-Fell, highest Top	*elev.* 1°	50	36
Sca-Fell, lower Top	*elev.* 1	51	10
Black Comb	*elev.* 21	45	
Red Pike	*elev.* 1°	56	25
Blake Fell	*elev.* 1	15	42
Crif-Fell	*elev.* 2	54	
Bengarn	*depr.* 9	15	
Scilly Bank	*depr.* 1°	24	3
North Berule	*depr.* 3	30	
Snea Fell	*depr.* 3	0	
Grisdale Pike	*elev.* 1°	18	54
Grasmere Fell	*elev.* 1	46	53
Skiddaw	*elev.* 1	6	1
The Pillar	*elev.* 2	16	0

At Crif-Fell.

Snea Fell	*depr.* 19	30	
North Berule	*depr.* 20	20	
Skiddaw	*elev.* 17	5	
High Pike	*depr.* 3	30	
Whin Fell	*depr.* 3	52	
Queensberry Hill	*elev.* 2	39	
The Lowthers Station	*depr.* 0	36	
Cairnsmoor near Carsphairn	*elev.* 3	0	
Lower Cairnsmoor Station	*depr.* 4	7	
Bengarn	*depr.* 35	23	
Wisp Hill	*depr.* 12	23	
Cross Fell	*depr.* 4	25	
Saddleback	*elev.* 8	23	
Helvellin	*elev.* 7	12	
Dent Hill	*depr.* 27	36	

At Wisp Hill.

Cross Fell	*depr.* 2	31	
The Cheviot	0	0	
The Dunrigs	*elev.* 5	48	
Whin Fell	*elev.* 10	26	

The ground at		′	″
Queensberry Hill	*depr.* 0	50	
Crif-Fell	*depr.* 15	15	
Elden Hills, highest Point	*depr.* 25	10	
Skiddaw	*depr.* 0	40	
Soutra Hill	*depr.* 18	45	
Sayrs Law	*depr.* 18	29	

At Sayrs Law.

Spartleton	*depr.* 30	44	
Arthur's Seat	*depr.* 37	35	
Pentland Station	*depr.* 12	29	
Pentland Hill near Glencross	*depr.* 13	10	
Soutra Hill	*depr.* 6	1	
The Dunrigs	*elev.* 5	28	
Elden Hills, highest Point	*depr.* 20	15	
The Cheviot	*elev.* 5	51	
Hedgehope	*depr.* 1	51	
Wisp Hill	*depr.* 11	57	
West Lomond	*depr.* 14	16	
East Lomond	*depr.* 18	11	
Largo Law	*depr.* 28	47	

At Lumsdane Hill.

Sayrs Law	*elev.* 28	6	
Spartleton	*elev.* 31	48	
Largo Law	*depr.* 9	32	
The Cheviot	*elev.* 30	48	
Hedgehope	*elev.* 22	15	
Blackheddon	*depr.* 10	54	
East Lomond	*depr.* 6	38	
West Lomond	*depr.* 4	48	
Cockburn Law	*elev.* 20	50	
Warlaw Bank	*elev.* 13	48	
Great Dirrington Law	*elev.* 21	24	
Twinlaw Cairns	*elev.* 20	9	
Hahchester Hill	*depr.* 7	11	

At Mordington Hill.

Blackheddon	*depr.* 4	54	
Roes Castle	*elev.* 3	34	
Hedgehope	*elev.* 38	30	
The Cheviot	*elev.* 45	37	
Sayrs Law	*elev.* 21	20	

The ground at		′	″
Habchester Hill -	*elev.* 30	0	
Elden Hills, highest Point -	*elev.* 4	33	

At Blackheddon.

The Cheviot - - -	*elev.* 1°	28	39
Hedgehope - -	*elev.* 1	18	12
Simonside - -	*elev.* 10	11	
Roes Castle - -	*elev.* 25	16	
Sayrs Law -	*elev.* 9	31	
Lumsdane Hill -	*depr.* 6	14	
Habchester Hill - -	*depr.* 3	20	

At Alnwick Moor.

The Cheviot -	*elev.* 1°	12	28

The ground at		′	″
Hedgehope -	*elev.* 1°	10	22
Simonside - -	*elev.* 26	59	
Rufflaw - - -	*depr.* 15	26	
Roes Castle - -	*elev.* 13	6	

At Rufflaw.

Pontop Pike - -	*elev.* 2	18	
Collier Law - -	*elev.* 9	42	
Wordeslow Hill - -	*depr.* 10	6	
Alnwick Moor -	*elev.* 4	45	
Hedgehope - -	*elev.* 43	46	
The Cheviot - -	*elev.* 48	33	
Simonside -	*elev.* 53	58	

ART. III. *Situations of the Stations.*

Royston. The station taking its name from this town, lies about two miles to the westward of it. There is a commanding spot of ground near the road leading to Baldock; and, upon this, between two ridges of ploughed land is the station. A large thorn bush grows on this hill, from which the station is thirty feet distant towards the termination of the ridge with the unploughed land.

Orwell. This station is so named from its being near to the village of Orwell in Cambridgeshire: it is about three quarters of a mile south-westward from it, and is situated on a green spot upon the highest ground at that distance from Orwell.

Maddingly. This station, named after the village to which it lies the nearest, is about fifty yards from a windmill, and close to the south side of the road leading to Cambridge. From Maddingly, it is about one quarter of a mile distant.

Balsham, Cambridgeshire. About a mile and a half from this town, towards the north, is a commanding piece of ground. It is in common fields, and has two clumps of trees growing upon it. The station is in the line joining the centre of these clumps, and may be found by setting off three hundred feet from the northern towards the southern clump.

The station near *Newmarket* is situated on a level spot of ground south-east of the town. It is two hundred and fifty yards eastward from a large circular plantation, and nearly one hundred and fifty westward from the trough at which the race horses are watered.

Brandon. The station, taking its name from Brandon in Suffolk, is in the middle of the rabbit warren on the high ground south from the town. It lies in a corner formed

by the conjunction of two old walls at the distance of two hundred yards from the keeper's hut.

Crowle station is situated about half a mile east from the village of Crowle in Lincolnshire. It is on a rising ground where once stood a windmill. There is now a mill nearly two hundred feet east of this station: it can be easily found.

Hunsley Beacon, Yorkshire. This station is south-west from Beverley, and distant about seven miles. It lies southward from the road leading from North Cave to Beverley, and is also south from the Beacon Pole.

Wilton Beacon, Yorkshire. The hill on which this beacon is erected, lies a little southward of the turnpike road leading from York to Bridlington, and near the fourteenth mile stone on that road. The station is on a bank of earth, and distant from the beacon pole one hundred and fifty feet in a direction nearly south-west.

Nunburnholme, Yorkshire. This station is situated north-west of the village bearing that name, at a distance of nearly two miles: it is on a small common, and lies south from a barn at the distance of one hundred yards nearly.

Looseboe, Yorkshire. The station is about two miles and a half north of the village called by this name. It is on a common, flat and boggy, and altogether open: it may be rather called a moor. There are not any marks on this ground to which the station can be referred.

Greenboe Moor, Yorkshire. This station is on the high ground in the north of Yorkshire, being two miles north from the village of Ingleby Greenhoe. It is on a barrow on the highest part of this moor, and can be found very easily. That part of the moor on which the station is situated is known by the name of *Botton Head*.

Helkinton. This station is named from a farm to which it is near. Helkinton Farm is west from the village of Cold Ashby in Northamptonshire, and about three quarters of a mile distant. The station is in the fifth field from the village, and about sixty yards from the road, being close to the western hedge.

Naseby Field. The station is in the centre of the large open field, and on the highest part of it.

Tilton on the Hill. The station near this place is situated on a commanding spot north from the road leading to Oakham. It is on the fifth ridge of unploughed ground east from a stone quarry.

Bardon Hill, Leicestershire. Bardon Hill is on Charlwood Forest, and between nine and ten miles from Leicester. The station is on the flat top of a rock seventy feet west from the summer house built on this hill.

Stathern Point. The station is on the west side of this promontory, and not more than half a mile from Stathern village: it is in the Duke of Rutland's park on a kind of bank, and nearly seventy yards from the gate.

Holland Hill, Nottinghamshire. This hill is about three miles from the village of

Arnold. Round the top of it is a circular ring, probably the remains of some very old military work. Outside this ring, on the northern side of it, is the station: it is in the south-west corner of a field belonging to a Mr. Jones.

Sutton Ashfield. The station, for brevity sake, named Sutton, lies about one mile south-east from Sutton Ashfield; it is on the brow of land terminating Sherwood Forest, and lies close to the road on its eastern side leading from Kirby to the *Red House,* which is situated by the side of the road proceeding from Sutton Ashfield to Mansfield.

Gringley on the Hill. Joining the east end of this village is a field, in which is a very large barrow. The centre of this barrow marks the station.

Clifton Beacon. This station is on the highest ground in the north-west corner of a field close to the village of Clifton near Conisbrough in Yorkshire.

Easington Station. This is near a village of the same name in the north-east of Yorkshire. It lies a little eastward of Lord Dundas's alum works, and in the highest part of a field close to the cliff: a stone hedge lies a little south from the station, and another west from it at a short distance. The place on which this station is situated can be easily found, as it is the highest part of the ground in this quarter.

Burleigh Moor. This spot lies nearly north from the town of Gisborough in Yorkshire, at a distance of three miles. It is in the grounds at Upleatham, the seat of Lord Dundas, and has an open view of the sea. On the northern part of the hill the ground slopes to the westward, and also to the northward, on which side there is a plantation. The place of the station is about thirty feet southward of the stone hedge, separating the plantation from the ploughed ground. By the favour of Lord Dundas, a high pole was left standing on the station, where it now remains.

Symmond's Hall, Glocestershire. This station is west from the house bearing this name. It is about eighty yards from the eastern side of the Wooten-under-edge road, passing near Symmond's Hall, and about thirty yards from the southern wall inclosing a bowling green.

Blagdon Hill, Somersetshire. This is one of the hills forming the Mendip range. It lies midway between the villages of Blagdon and Chedder, and the station is the centre of the largest barrow on the hill.

Quantock Hills, or *Bagborough Station,* Somersetshire. On the highest part of the Quantock Hills, west from Coltheston Beacon, at about two miles distant, are barrows. They are above the village of Bagborough. One of these barrows is named *Will's Neck,* and close to Will's Neck on the eastern side is the station.

Dunkery Beacon near Porlock in Somersetshire. On this well-known hill are two stone barrows touching each other at their bases. Close to both barrows on the western side is the station.

Brompton Ralph, Somersetshire. The ground west from this town rises abruptly, and on the highest part of this ground, near the slope, are the remains of an ancient quadran-

gular fortification. On the parapet of the north-east corner is the station. This spot is known by the name of *Elworthy Barrows.*

Haddon Beacon, Somersetshire. The station is in the middle of a small inclosure. On the top of this beacon, which is about four miles north from Dulverton.

North Molton Ridge, Devonshire. This is on Exmoor Forest, and situated east from the town of North Molton, two miles and a half. A road passes over the Down upon this ridge, on which is a large barrow in the middle of a bog; on this barrow is the station.

Span Head, or *Five Barrow Down,* is nearly six miles north from South Molton. A road passes over the Down to the south of the station, and is about five hundred yards from it.

Parracombe Station is two miles south of Parracombe, and on Exmoor. There are several barrows on the Down, and on the third barrow from Parracombe is the station.

Hathersage Moor. This station is in Derbyshire. It is a very commanding situation, lying midway between the town called Hathersage and Sheffield. The station is on the highest part of the Moor, the ground falling gradually around it. Near the station, a turnpike road branches off towards Stoney Middleton, leaving the station in the angle formed by that road, and the one leading from Sheffield over the hill to the town or village of Hathersage.

Orpit Heights, Derbyshire. The high ground, called Orpit Heights, is about two miles from Wirksworth in the direction of Derby. The station is nearly two hundred yards from the old road leading to Derby, and close to the east side of a stone pit on the top of the highest ground. There is a stone of singular form and great size, standing upright very near to this station.

Axedge. The hill bearing this name is two miles south-west from Buxton. On the top of this well known hill is a barrow, the centre of which marks the station.

Weaver Hill, Staffordshire. This hill is north from Wooten, and close to it. The station is on a barrow on the top. The centre of the barrow marks the station.

Castle Ring. In the Earl of Uxbridge's park in Cannock Forest, Staffordshire, is a high spot of ground, on which are the remains of an ancient fortification. The interior of the work is planted with trees, and the point marking the station is on the western embankment.

Bar Beacon, Staffordshire. This is a well known spot near Walsall, having a circular plantation on its top. The point marking the station cannot be easily found for want of proper marks to which it can be referred. From the northern edge of the plantation, it is about thirty yards distant.

Malvern Hills. The station is on the highest point of the range, and just above the town of Great Malvern. It can be easily found.

Cleeve Hill, Glocestershire. The station is nine feet north from the wall, which runs

nearly in a direction east and west across the hill. The distance is taken perpendicularly to the wall, and is the nearest point from the wall to the station. Cleeve Hill is a part of the high ground eastward of and near to Cheltenham.

Beacon Moor near Chumleigh in Devonshire. This station is a mile and a half from the town towards the north. It cannot be easily found; it is however on the highest part of the Down.

Hatherleigh Station in Devonshire, is about twenty yards to the westward of the road leading to Chumleigh, and about one mile from the town. It is near the hedge, and a little south from the cottage.

Bradbury Castle on Bradbury Down, Devonshire. The station is on the outside of the parapet, and close to the ditch at the north-west corner of the work.

Warbstow Beacon in Cornwall, is situated about half a mile north-west of Warbstow. The station is in the middle of the field said to have been the site of an old beacon.

May Hill, Glocestershire. This is a well known spot near the village of Huntley. The station is on the south-east side of a circular plantation growing on this hill.

Trelleg Beacon, Monmouthshire. Trelleg Beacon is situated on Trelleg Moor near the town of Trelleg. The station is on the place where a beacon formerly stood, and may be easily found.

Cradle Mountain, Brecknockshire. The high land south from Talgarth, and some few miles from it, bears the name of Black Forest. Cradle Mountain is in the middle of this forest. The station is marked by the centre of an obtruncated cone on the highest part of the mountain.

Mynydd Mane, Monmonthshire. This station is on the high land south-west from Pontypool, and about three miles from it. The hill lies between two canals joining at Newport. A road passes over the hill. The station is seventy yards south from the road, and near to the eastern side of the hill.

The Garth. The hill thus called is close to, and a little to the north of Pentyrch in Glamorganshire. Two very large barrows stand on this hill, and the station is on the top of the western barrow.

Ogmoor Down, Glamorganshire. This Down lies between the villages of Ogmoor and St. Bride's. A part of this common is inclosed, and in the south-west corner of a field belonging to the rectory of St. Bride's is the station.

Margam Down near Margam in Glamorganshire. The station is north from the town about two miles. It is situated on the apex of a small round hill near a pond on this Down.

Llangeinor. The station taking this name is situated on a mountain thirteen or fourteen miles from Bridgend, towards the north, and six or seven miles from the village of Llangeinor. The land in this quarter is high, and, being entirely devoid of any defined

object, does not admit of the means by which the station can be accurately pointed out. A mountain called Blaengarrw is west from the station nearly a mile and a half.

Cefn Bryn, Glamorganshire. Twelve miles west from Swansea is Llanridian, a small village. South from Llanridian, and near to it, is a range of high ground having a direction east and west. At the eastern extremity of the range is a pile of stones, and near to this is the station, round which are placed many other stones for the purpose of preserving it. A remarkable stone, called King Arthur's stone, is placed on this range nearly a mile westward.

Lannon, Caermarthenshire. The station near this village is on the top of an insulated hill on the south-west side of Lannon. A ring of stones surrounds the station.

Marros Beacon, Caermarthenshire. The beacon is south from Marros church a half a mile, and near the coast.

Newton Down, Pembrokeshire. This Down is nearly two miles and a half south-east from Pembroke. The station cannot be pointed out with sufficient accuracy, the Down being flat, open, and destitute of marks of reference.

Highgate Mountain. The land thus called is south from Pembroke, and the station is about two miles from that town in a south-west direction. There are not any marks near this station to which it can be referred.

St. Ann's Hill, Pembrokeshire. The station on this head land, is about one mile from the village of Dale, being in a field, a little more than half a mile from St. Ann's Lighthouses. The field may be easily found, as the farm house and the highest of the lighthouses are nearly in the same line from the station. From the south-west corner of this field, the station is distant three hundred and ten feet, and from the south-east corner three hundred and seventy-five feet.

Plumstone Down. This station lies nearly seven miles north-west from Haverfordwest, and a mile eastward from Roch Castle. The place of the station cannot be pointed out otherwise than by saying, that it is on that part of the Down which affords the most extensive views.

Precelly Top. This is a high and very well known mountain, north from Haverfordwest fourteen miles. The mountain is conical, and has a barrow on the top of it. On the south side of the flat head of the barrow is the station.

Capel Kynon is in Cardiganshire. The station is on an extensive moor seven miles east from Newcastle in Caermarthenshire. There are not any marks on this Down by which the station may be discovered.

New Inn, a village in Caermarthenshire. The station taking its name from this place is about two miles from it in a southern direction: there are two large barrows on the hill. The station is on the western barrow.

Talsarn, Cardiganshire. The hill on which this station is to be found is about three miles north of the village of Talsarn. A barrow of great magnitude stands on the hill: the station is upon it, and near the centre of the barrow.

Caermarthen Vau. The staff was erected on the highest part of this hill. Caermarthen Vau is a very high mountain, sometimes called Trecastle Beacon.

Capellante, a mountain in Brecknockshire. The station is on the highest part of the mountain, which has a conical top.

Tregarron Down is four miles from the town of Tregarron in Cardiganshire, in a direction nearly south-east: on the top of the Down is a large heap of stones. The station is sixty yards south from it.

Aberystwith, Cardiganshire. At the distance of a mile and a half from Aberystwith, in an eastern direction, is a small conical hill. The station is on the highest part of this hill.

Plynlimmon, Montgomeryshire. The station is on the highest part of this mountain. Near to it are two large piles of stones. The station is on the north east side of the highest pile, and about twenty feet from it.

Peggwns Fawr, or Llandinam Mountain, Montgomeryshire. This station is due east from Llanidloes, and about six miles from it. A barrow stands on the hill, the centre of which marks the station.

Stow, Shropshire. Close to the north side of this village is high rocky ground, having steep rocks on the slope of it. About fifty yards behind these rocks, on the highest part of the hill, the station is to be found.

New Radnor, Radnorshire. The station is in the forest, and on the western side of it. It is about three miles and a half from Radnor.

Clay Hill, commonly called Brown Clay Hill, Shropshire. This hill is nearly a mile south from the village called Prior's Ditton. There is an ancient work of stone on this hill, inclosing a considerable space of ground: on the south-west corner is the station.

The Wrekin, Shropshire. The station is on the eastern and highest part of this mountain.

Long Mountain, Montgomeryshire. This mountain is near Welch Pool, and has on its top a large ancient fortification. The ground within the work rises gradually from the circumference to the centre; and on the highest part of the hill is the station.

Hawkston Obelisk. This object, serving as a point of intersection to several stations, is situated in Sir Richard Hill's Park at Hawkston near Market Drayton.

Ashley Heath, Staffordshire. This heath is about three miles and a half from Market Drayton in an eastern direction. Upon it there is a spot destitute of furze or heath, called *Parson's Chapel.* It is on the highest ground, and the station may be found very easily.

Mow Copt, Staffordshire. This hill is situated four miles south from Congleton, and is well known throughout the county. The station is on the narrow ridge of it, and fifty yards east from a very large rock, on which are the remains of an old gazebo.

Delamere Forest, Cheshire. This forest is situated north from Tarporley, and the

station about five miles from that town. On the forest is a farm called the *Old Pale*, and west from the farm house, is a high piece of ground, at the bottom of which is a rabbit-warren. The hill is the highest on the forest: on the top of it is a hedge, crossing it in a direction north and south, and another hedge meets it at right angles near the top of the hill. The station, on which the zenith sector was erected, is thirty feet west from the former hedge, and forty yards from the latter.

Cyrn y Brain. The mountain called by this name is in Denbighshire, being two miles south-east from the village of Llandegle. On the top is a large carn of stones. The station lies south-east from this carn about thirty yards. A great number of stones were taken from the great carn, and heaped over the station.

Pengarn. This mountain lies between Towyn and Dolgelly in Merionethshire. At the nine mile stone from Towyn, this mountain bears north-west, and is not more than half a mile from it. There is a high stone barrow on the top of the mountain. The station is on this barrow.

Ynaliog. This station is on an insulated conical hill, having a very narrow top, the centre of which marks the station. Ynaliog is about a mile and a half north from Aberdaron in Caernarvonshire.

Rhiw Mountain, Caernarvonshire. This mountain is south-west from Pwlheli, and about twelve miles distant from it. It is close to the little village Rhiw Lan, which lies in the bosom of the bay called Hell's Mouth. The station is thirty-four feet from the corner of the Beacon House.

Snowdon. The object was placed on the very highest part of this mountain.

Moel Rhyddlad, Anglesea. The station is situated on the highest part of this hill, which is about half a mile northward from the village of Llanrhyddlad.

Holyhead, Anglesea. The object observed was the naval signal staff on this mountain.

Llanelian, Anglesea. A mile south-east from this village lies an insulated hill, commonly called Llanelian Mountain. On the top of this hill is a ridge, sloping gradually off towards the north and south. The station is on the highest part of the ridge.

Llwydiart, Anglesea. The hill called by this name is situated on the open ground, and is about a mile east from the village of Pentreth. The south side of the hill is very steep. The station is near the commencement of the slope, and on the highest part of the hill.

Great Orme's Head, Caernarvonshire. The object observed was the naval signal staff.

Llanelian, Denbighshire. A mile and a half from this village southward lies a hill, called Llanelian Mountain. On this hill is a barrow having a concavity on its top. The centre of the concavity marks the station.

West End of Base, Denbighshire. In the eastern angle formed by the sea wall, and the end of the road leading from Abergele to the bathing place, is the station.

East End of Base, Flintshire. The station is near to the road leading from St. Asaph

to Rhuddlan. It is on the west side of the road, and no great distance from it, and is rather more than a quarter of a mile from Rhuddlan.

Moelfre Issa, Denbighshire. This is a mountain nearly three miles south from Abergele. On the top is a heap of stones, and on the western side, close to the heap, is the station.

Gwaunysgaer Down, Flintshire. This hill lies about five miles from the town of Rhuddlan. A village called Gwaunysgaer is at the bottom of the hill on its southern side. The station is on the top of the hill, and in the middle of the green spot commonly called the *Bowling Green*.

Garreg Mountain, Flintshire. This mountain, though properly speaking only a hill, is a mile west from the village of Whitford. The station lies about twenty yards south from an old circular building on the top of the hill.

Heswell Hill, Cheshire. This hill is about three miles west from Parkgate. The station is on the top of it, and north from a pool of water, and within a few feet of it.

Go Hill, Lancashire. This station is in the parish of Aughton, and about a mile from the village. It is half a mile west from Ormskirk Windmill, and on the top of the hill, in the middle of an inclosed field, is the station.

Billinge Beacon, Lancashire. This beacon is half a mile nearly from Billinge in a northern direction. It is situated on a high rising ground, and the station lies on the top of the hill in a direct line between the gazebo and a stone quarry, and about thirty yards from the former.

Belle-field Hill, Cheshire. This hill is about three miles and a half from Warrington towards the south, and a quarter of a mile westward from the road leading from Warrington to Northwick. It is an insulated hill. The station is on the top of the hill, which is of a conical form.

Rivington Hill, Lancashire. This hill is nearly five miles north-west from Bolton, and about a mile and a half eastward from Rivington Pike. A road passes over the hill. The station is nearly a hundred yards north from it. From the want of proper marks on this hill, the precise point marking the station, cannot be pointed out.

Wittle Hill, or *Wittle Pike*, Lancashire. This place is about seven miles northwards of Rochdale, and about two miles north from the road leading from that town to Haslington. A barrow stands on this hill. The station is on the top and in the centre of the barrow.

Holme Moss, Cheshire. This is part of the high land three miles north of Woodhead, and that range of hills which runs from Derbyshire through Cheshire into Yorkshire. Holme Moss is an open and barren spot, and does not contain any singularity of feature, by which the place of the station can be pointed out.

Lord's Seat, near Castleton, Derbyshire. This hill lies one mile north from the road leading from Castleton to Chapel in le Frith, and nearly at an equal distance from those

places. On the top of Lord's Seat is a very high barrow. The station is on the middle of the barrow.

Bradfield Point, Yorkshire. Bradfield Point is the northern extremity of a range, running from the south towards the north, and terminating at this point which is nearly a mile and a half from the village of Bradfield. A road passes over the hill close to the station.

Staincross Heights, Yorkshire. The station is half a mile nearly west from the village called Staincross. It is on the western part of the heights, and near to an old stone quarry.

Ledstone Beacon, Yorkshire. This station is in Ledstone Park. The beacon pole is west from the point marking the station nearly thirty-five yards.

Boulsworth Hill, Lancashire. This hill is about four miles from Colne, and nearly five miles from Burnley, in an eastern direction. A point on this hill is called Ladlaw, and this point is the station.

Bleasdale Forest, Lancashire. The object observed was placed on the highest ground, and near the western termination of this range.

Pendle Hill, Lancashire. On this hill was formerly a beacon. It is distant from Clitherow five miles, and lies south from it. The station is on the eastern part of the hill, and upon the point where the beacon stood.

Ingleborough, Yorkshire. The station on this well known mountain is sixty-seven yards east from the old hut (a shepherd's hut). Round the station are placed a great number of very large stones.

Great Whernside, Yorkshire. This is a high mountain north-east from Kettlewell, and nearly two miles from it. On the top are a great number of huge rocks, scattered about in all directions. One of these rocks towards the south is perfectly flat, and on the centre of it is the station.

Rumbalds, or *Rumbles Moor*, Yorkshire. This place is nearly two miles south from Ilkley. The station is on the highest ground of this moor, and on a barrow.

Hambleton Down, and Black Hambleton Stations, Yorkshire. Hambleton Down is near to Hambleton Inn, which is about seven miles eastward from Thirsk. This station is on the top of a large barrow in the second field south from the moor, and in the second field west from the *Grey Mare Rocks*. Black Hambleton Station is just above Keebeck, a small village at the bottom of the Down, and is also on a barrow.

Beryl Hill, Lancashire, is a rising ground near the village of Warbreck, about three miles to the westward of the town of Poulton in the Fylde. The station is twenty feet west of the side of a lane leading from Warbreck, by some farm houses, to Bispham, and a little to the northward of a sand pit.

The Calf, Yorkshire. The station is about four miles north of Sedbergh, and cannot be discovered by measurement, as there is no defined object near it.

Black Comb. The southmost of the Cumberland range of mountains. The station is on the highest part of the mountain, and is rendered remarkable by a large quantity of stones placed round the lower part of the staff. It is about three miles south-east of the village of Bootle.

Scilly Bank, Cumberland. This station is about one mile and a quarter north-east of Whitehaven.

Dent Hill, Cumberland, is situated towards the western extremity of Copeland Forest, and the station being on its summit, from whence the ground falls abruptly in every direction, may be found without any difficulty.

High Pike, Cumberland. This is one of the Caldbeck Fells, and the station on it is about four miles south of that village.

Cross Fell, A very remarkable mountain about nine miles south of Aldstone in Cumberland. The station is on its summit, and may be discovered by means of the stones placed around the staff.

Water Crag is situated in that mountainous tract of country called Arkengarth Forest, in the North Riding of Yorkshire. The station is about three miles west of the village of Arkendale.

Collier Law is about two miles north-east of Stanhope in the county of Durham. The station is two hundred and thirty-two feet north-west from a pile of stones, which is kept up by the country people with great tenacity.

Brandon Down, or *West Brandon Mount,* Durham. The station is situated on the western end of a sharp ridge of earth, which appears to have been excavated from a quarry near it many years ago. It is the flat part of this ridge which is the summit of the hill, and is about one mile from East Brandon, close to the side of a lane leading from thence to West Brandon.

Wordeslow Hill, Durham. This station is about one mile and a quarter north-east of the village of Houghton le Spring.

Pontop Pike, Durham. There is a plantation and a house near the top of this hill, and a stone fence runs from the end of the plantation in a northerly direction. The station is on the highest part of the hill, and about forty five feet from the angular point formed by the fence and plantation.

Rufflaw, Northumberland, is nearly two miles south of Longhorsley. There are several houses on this hill, but none of them sufficiently near the station to serve as a convenient reference.

Alnwick Moor, is about two miles westward of Alnwick in Northumberland, and the station may be discovered without any difficulty, as it is on the top of the hill, and only five yards from the junction of three stone dikes, measured in a direct line with the lighthouse on Coquet Island.

Blackheddon, Northumberland. This hill is situated on the western side of the road,

leading from Belford to Berwick-upon-Tweed, and about one mile and a quarter south-west of Kyloe. The station is on the eastern side of a barrow.

Mordington Hill, Scotland. The station on this hill is about three quarters of a mile south-west from the four mile stone on the road from Berwick-upon-Tweed to Ayton.

Lumsdane Hill, Scotland. On this hill is a large barrow, and the station is one hundred and ninety-six feet west from the centre of it.

Sayrs Law, Scotland. The station is on the highest part of this hill, which is the highest of the Lammer Muir range of hills. It is about nine miles south of Haddington.

Wisp Hill, Scotland. A well-known hill on the western side of the road leading from Longholm to Hawick. The station is about one mile south-west from Morpaul Inn.

Crif-Fell, Scotland. This remarkable hill is about three miles south of New Abbey. The station is close to the southern side of Douglas's Carn.

SECTION SECOND.

ART. I. *Particulars relative to the Measurement of a new Base Line on Rhuddlan Marsh in the Year* 1806, *with the Reduction of that Base Line.*

North-west from St. Asaph, at the distance of four miles, commences an extensive and level piece of ground, which reaches from the village of Rhuddlan on the western borders of Flintshire, to that called Llandulas in Denbighshire. Though it bears the name marsh, yet it is for the most part cultivated and inclosed, having ditches and deep dikes. The soil is of a strong marly nature. A bank from Rhuddlan to Llandulas protects the level from the encroachments of the Irish Sea; the mean height of it above low water mark being about twenty-five feet.

By favour of John Lloyd Esq. a plan of the marsh was procured, drawn to a large scale, which greatly facilitated the choice of that part of it whereon the base line was to be measured. On due examination of the ground, with the assistance of this plan, the particular direction affording the longest measurable line was determined, the eastern extremity being near the road side, adjacent to Rhuddlan bridge, and the western on the bank or sea wall at the distance of nearly an half a mile north from Abergele.

The apparatus for the measurement of this base line, was brought from the place in which it had been deposited in Lincolnshire, after the use of it on Misterton Carr in the summer of 1802, to Rhuddlan Marsh in September, and on the 22d of the same month the base was traced out, and many points in the true line found, and marked with pickets, exactly in the same manner

and by the same means as were adopted in the measurements on Salisbury Plain, Sedgemoor, and Misterton Carr.

In the account of the Trigonometrical operations, published in the Philosophical Transactions, 1803, Mr. Berge is shewn to have re-determined the lengths of the standard and working chains. These chains, from that to the present recorded period, had been carefully preserved and cleaned at proper intervals. They were now compared with each other. At the first trial, the thermometers stood as follows: the chain B being laid straight in the coffer.

Thermometers.

1	2	3	4	5
55·5—	55·5—	55·5—	55·25—	56.

The temperature remaining unaltered, the chain B was taken out of the coffers, and the chain A stretched out in its stead. The difference between their lengths was measured with the micrometer screw, which gave the chain A longer than the chain B one revolution six divisions of the micrometer's head.

This operation was repeated twice in the same day, at times when the sun did not shine out, or the wind blow. The same result was given at each trial, as in the one abovementioned, differing from Mr. Berge's determination, by measuring the length of each chain, 0,0068 parts of an inch.

The fifty feet chain was, on this occasion, compared with the standard B, and discovered to be 12,25, or 0,0471 parts of an inch shorter than that standard.

The line of the base being previously traced out, and blocks of wood sunk at the extremities, to mark the points of departure and termination, the measurement of the base was proceeded with, and continued with little interruption till the 24th day of

October, when it finished with the 249th chain, of which number eight were with the fifty feet chain.

On the first convenient opportunity, after the measurement was completed, the chains A and B were compared with each other, the temperature during the operation continuing uniform, the thermometers in the coffers standing as follows; *viz.*

Thermometers.

1	2	3	4	5
59	60,8	60,8	61	61,6.

From this and several subsequent removals of each chain, it appeared that A exceeded B one revolution 7,5 divisions of the micrometer head, giving a wear of one division and a half, or 0,0058 parts of an inch in the working chain A, by the use of it on this occasion. The fifty feet chain was also compared with the standard, and found to be 12,25, or 00,471 parts of an inch shorter when measured with twice its length.

ART. II. *Reduction of the Base to the Temperature of* 62°.

The apparent length of the base was 241 chains of 100 feet + 8 chains of 50 feet each, and the overplus of the last chain, *viz.* 12,208 feet - - Feet. 24512.208

The length of the chain A, previous to the measurement, may be taken according to Mr. Berge's determination = 100 feet + 0.1325 parts of an inch, in the temperature of 54°; and if half its wear, *viz.* 0.0029 parts of an inch be added to its excess, we shall have $\frac{0.1354}{12} \times 241 = 2,723$ feet, which add - - + 2.723

The standard chain B, according to Mr. Berge's determination, is 0.0778 parts of an inch too long; and by our comparisons, it exceeds twice the length of the fifty feet chain by 0.0471 parts of an inch. Therefore twice the length of the fifty chain is 0.0307 parts of an inch too great, which gives $\frac{0.0307}{12} \times 4 = 0,01$, which also add - - - - - + 0.01

The sum of the degrees shewn on the thermometers was 76945, wherefore $\frac{76945}{5} - 54° \times 24512 \times \frac{0\ 0075}{12}$ = 1,345 feet, which is the correction for the mean heat in which the base was measured above 54°, the temperature in which the chains were laid off, and this add - - - - - - + 1.345

Finally, we have $\frac{0\ 01237 \times 245.12 \times 8}{12} = 2,022$ feet for the reduction of the base to the temperature of 62°, which subtract - - - - — 2.022

Hence the true length of the base in the temperature of 62° is - - - - - 24514;26

ART. III. *Calculation of the Sides of the principal Triangles carried on from the Side joining the Stations Bowbrickhill and Lilleyhoe towards Cambridgeshire and Norfolk. Plate I.*

Distance from Bowbrickhill to Lilleyhoe, 69867,5 feet. Phil. Trans. 1803.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
	Royston -	18 55 45,5	+ 0,51	18 55 46	
	Lilleyhoe	139 18 13,5	— 1,21	139 18 13	
	Bowbrickhill	21 46 1	— 0,13	21 46 1	
		180 0 0	"		
		Royston from { Lilleyhoe -			79866,8*
		Bowbrickhill			140433,6

Distance from Lilleyhoe to Lidlington 49025 feet. Phil. Trans. 1803.

II.	Royston - -	23 43 41,75		23 43 42	
	Lilleyhoe -	115 18 36		115 18 36	
	Lidlington - -	. . . .		40 57 42	
		Royston from { Lilleyhoe -			79867*
		Lidlington -			110136,5
III	Royston - -	126 8 16,75		126 8 16	
	Orwell - -	35 24 20		35 24 20	
	Lilleyhoe - -	. . .		18 27 24	
		Orwell from { Lilleyhoe -			111330,9
		Royston - -			43642,8
IV	Royston - -	50 58 3,5		50 58 3	
	Orwell - -	101 51 21,5		101 51 21	
	Balsham - -	27 10 36		27 10 36	
		180 0 1			
		Balsham from { Orwell - -			74225
		Royston -			93515,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
v.	Trusler Hill -	121 38 32		121 38 32	
	Brogborough -	46 15 28		46 15 28	
	Lilleyhoe - -	12 6 0		12 6 0	
		180 0 0			
		Brogborough from		Trusler Hill	14702,7
				Lilleyhoe -	59713,5
vi.	Orwell -	54 0 44,5		54 0 44	
	Maddingly -	102 57 27,75		102 57 27	
	Balsham - - -	23 1 49,25		23 1 49	
		180 0 1,5			
		Maddingly from		Balsham -	61627,8
				Orwell - -	29796,8
vii.	Orwell -	19 7 3		19 7 3	
	Balsham	130 25 24		130 25 24	
	Newmarket	. . .		30 27 33	
		Newmarket from		Balsham -	47954,2
				Orwell - -	111467.4
ix.	Maddingly - -	96 47 58,25		96 47 58	
	Balsham - -	40 24 23,75		40 24 24	
	Northy -	. . .		42 47 38	
		Northy from		Balsham -	90076,1
				Maddingly -	58801,6
ix.	Balsham - -	45 31 21		45 31 21	
	Newmarket -	104 53 23		104 53 23	
	Ely Minster - -	. . .		29 35 16	
		Ely Minster from		Newmarket -	69298,5
				Balsham -	93860,1

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
x.	Newmarket -	71 6 46,25		71 6 46	
	Brandon Hill -	51 50 57,25		51 50 57	
	Ely Minster - -	. . .		57 2 17	
		Brandon Hill from { Ely Minster			83377,9
		Brandon Hill from { Newmarket -			73937,7
xi.	Newmarket -	58 55 4,25		58 55 4	
	Brandon Hill -	66 5 15,75		66 5 15	
	Littleport - -	. . .		54 59 42	
		Littleport from { Brandon -			77307,5
		Littleport from { Newmarket -			82519,6
xii.	Trusler Hill -	79 8 40,5		79 8 40	
	Bowbrickhill - -	39 44 20		39 44 20	
	Brogborough -	61 7 0		61 7 0	
		180 0 0,5			
		Brogborough from Bowbrickhill -			22587.2*
xiii.	Bowbrickhill -	54 38 58		54 38 58	
	Lilleyhoe - -	17 58 10		17 58 10	
	Brogborough -	. . .		107 22 52	
		Brogborough from { Bowbrickhill			22586,2*
		Brogborough from { Lilleyhoe -			59712,5
xiv.	Bowbrickhill -	39 51 19		39 51 19	
	Hill Farm - -	27 50 22		27 50 22	
	Horsemoor Hill -	. . .		112 18 19	
		Horsemoor Hill from { Browbrickhill			8166,1
		Horsemoor Hill from { Hill Farm			11206,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
xv.	Bowbrickhill -	5 52 54		5 52 54	
	Trusler Hill - -	3 59 0		3 59 0	
	Horsemoor Hill -	170 8 6		170 8 6	
		Horsemoor Hill from		Bowbrickhill	8165,6
				Trusler Hill	12044,8
xvi.	Brogborough -	19 4 25		16 4 25	
	Bowbrickhill - -	45 37 41		43 37 41	
	Horsemoor Hill -	. . .		115 17 54	
		Horsemoor Hill from		Brogborough	17859
				Bowbrickhill	8164,4
xvii.	Brogborough -	85 29 1		85 29 1	
	Bowbrickhill - -	37 6 50		37 6 50	
	Hill Farm - -	. . .		57 24 9	
		Hill Farm from		Brogborough -	16178
				Bowbrickhill -	26728,9

ART. IV. *Calculation of the Sides of the principal Triangles carried on from the Side Arbury Hill and Bardon Hill towards the Northern Part of Leicestershire.*

Distance from Arbury Hill to Bardon Hill 180434 feet.

xviii.	Arbury Hill -	36 45 31,75		36 45 32	
	Bardon Hill - -	17 44 20,5		17 44 21	
	Helkinton - -	125 30 8		125 30 7	
		180 0 0,25			
		Helkinton from		Arbury Hill -	67529,4
				Bardon Hill -	132638,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″			Feet.
xix.	Arbury Hill	27 3 31,25		27 3 31	
	Burrow Hill	143 13 51,25		143 13 51	
	Helkinton			9 42 38	
		Burrow Hill from		Helkinton -	51319,1
				Arbury Hill	19028,4

Distance from Holland Hill to Bardon Hill 124460 feet.

xx.	Holland Hill	68 46 52,5		68 46 52	
	Bardon Hill -	39 39 16,5		39 39 17	
	Stathern Point	71 33 50,75		71 33 51	
		179 59 59,75			
		Stathern Point from		Bardon Hill	122298,7
				Holland Hill	83722,1

From the last triangles we get the distance from Bardon Hill to Helkinton = 132638,3 feet, and the distance from Bardon Hill to the station on Stathern Point = 122298,7 feet; these, with the observed angle at Bardon Hill, viz. 93° 15′ 28″, give the angles in the following triangle.

xxi.	Stathern Point -	45 33 55			
	Helkinton - -	41 40 37			
	Bardon Hill -	93 15 28 which triangle gives 185455,2 feet for the distance between Helkinton Station and Stathern Point Station.			
xxii.	Helkinton - -	9 0 10		9 0 10	
	Stathern Point -	11 10 53		11 10 53	
	Tilton on the Hill -	159 48 57		159 48 57	
		180 0 0			
		Tilton on the Hill from		Stathern Point	84108
				Helkinton -	104228,2
xxiii	Helkinton - -	50 10 46,5	—0,7	50 10 46	
	Bardon Hill -	50 32 31,25	—0,48	50 32 31	
	Tilton on the Hill -	79 16 43,5	—1,58	79 16 43	
		180 0 1,25			
		Tilton on the Hill		Helkinton -	104228,1
				Bardon Hill	103683,2

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″		° ′ ″	Feet.
XXIV.	Bardon Hill -	42 42 56,75	—0,32	42 42 56,5	
	Tilton on the Hill -	80 32 18,5	—0,6	80 32 18,5	
	Stathern Point -	56 44 45,25	—0,95	56 44 45	
		180 0 0,5			
	Tilton on the Hill from Stathern Point				841076
XXV.	Bardon Hill - -	23 23 48,5	—0,2	23 23 48	
	Holland Hill	48 13 36,5	—0,11	48 13 36	
	Cropwell Bishop	108 22 36,5	—1,1	108 22 36	
		180 0 1,5			
	Cropwell Bishop { Holland Hill -				52078,1
	Cropwell Bishop { Bardon Hill -				97808,3
XXVI.	Bardon Hill - -	16 15 34,25		16 15 34	
	Stathern Point -	43 57 24,5		43 57 24	
	Cropwell Bishop -	119 47 2,25		119 47 2	
		180 0 1			
	Cropwell Bishop from { Stathern Point				39454
	Cropwell Bishop from { Bardon Hill -				97810,2
XXVII.	Cropwell Bishop -	131 50 19		131 50 18	
	Holland Hill - -	20 33 12		20 33 12	
	Stathern Point -	27 36 30		27 36 30	
		180 0 1			
	Cropwell Bishop from { Stathern Point				39452,5
	Cropwell Bishop from { Holland Hill -				52076,2
XXVIII.	Holland Hill - -	40 17 28,75		40 17 29	
	Cropwell Bishop -	97 22 7		97 22 7	
	Bottesford - -	. . .		42 20 24	
	Bottesford from { Holland Hill -				76681,4
	Bottesford from { Cropwell Bishop				50001

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
xxix.	Stathern Point -	93 34 9		93 34 9	
	Cropwell Bishop -	34 28 15		34 28 15	
	Bottesford - -	. . .		51 57 36	
	Bottesford from			Stathern Point	28352,8
				Cropwell Bishop	49997,8
xxx.	Cropwell Bishop -	125 27 11,25		125 27 10	
	Holland Hill -	18 42 50,75		18 42 50	
	South End of a proposed Base Line -	35 50 0,25		35 50 0	
		180 0 2,25			
	South End of Base from			Holland Hill -	72463,5
				Cropwell Bishop -	28541
xxxi.	Cropwell Bishop -	39 52 49,5		39 52 49	
	North End of Base -	38 51 45		38 51 45	
	South End of Base -	101 15 27		101 15 26	
		180 0 1,5			
	North End of Base from			South End -	29165,7
				Cropwell Bishop	44612
xxxii.	Cropwell Bishop -	46 15 59,5		46 15 59	
	Stathern Point - -	75 2 5,5		75 2 4	
	North End of Base	58 41 57,25		58 41 57	
		180 0 2,75			
	North End of Base from			Stathern Point -	33363,6
				Cropwell Bishop	44607,8
xxxiii.	Stathern Point - -	59 3 56,75		59 3 57	
	South End of Base -	101 5 54		101 5 53	
	North End of Base -	19 50 9,5		19 50 10	
		180 0 0,25			
	South End of Base from			North End of Base	29162,3
				Stathern Point -	11537

The last four of the foregoing triangles might have been omitted, were it not that many observations to church towers and other objects were made from the two extremities of the base once proposed to be measured.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXXIV.	Helkinton - -	45 9 48		45 9 48	
	Tilton on the Hill -	9 2 8,25		9 2 8	
	Naseby-field - -	125 48 4,5		125 48 4	
		180 0 0,75			
	Naseby-field from	Helkinton - -			20182
		Tilton on the Hill -			91128,6
XXXV.	Holland Hill - -	73 30 59		73 30 59	
	Stathern Point -	73 17 38		73 17 38	
	Lincoln Minster -	. . .		33 11 33	
	Lincoln Minster from	Holland Hill -			146484,5
		Stathern Point			146656,3
XXXVI.	Holland Hill - -	98 5 59,5		98 5 59	
	Sutton Ashfield - -	67 51 16		67 51 16	
	Lincoln Minster -	. . .		14 2 45	
	Lincoln Minster from	Holland Hill			146454,7
		Sutton Ashfield			156541,8

Mean distance from Lincoln Minster to Holland Hill 146469,6 feet.

Distance between Castle Ring and Orpit Heights 153235,2 feet.

XXXVII.	Orpit Heights -	42 2 15	—0,02	42 2 15	
	Castle Ring - -	25 21 43,5	—0,23	25 21 43	
	Weaver Hill -	112 36 3,5	—1,44	112 36 2	
		180 0 2			
	Weaver Hill from	Orpit Heights			71095,7
		Castle Ring -			111144,1

ART. V. *Calculation of the Sides of the principal Triangles proceeding from the Base Line recently measured on Rhuddlan Marsh.*

Length of the Base on Rhuddlan Marsh 24514,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXXVIII.	East End of Base -	135 11 59,5		135 11 58	
	West End of Base -	20 34 2,5		20 34 1	
	Gwaunysgaer Down	24 14 1,5		24 14 1	
		180 0 3,5			
	Gwaunysgaer Down from			East End of Base	20981,2
				West End of Base	42084,2
XXXIX.	East End of Base -	40 12 33		40 12 32	
	West End of Base -	75 45 17		75 45 17	
	Moelfre Issa - -	64 2 11		64 2 11	
		180 0 1			
	Moelfre Issa from			East End of Base	26427,8
				West End of Base	17602,4
XL.	West End of Base -	96 19 19 5		96 19 18	
	Gwaunysgaer Down -	21 40 25		21 40 24	
	Moelfre Issa -	62 0 19,5		62 0 18	
		180 0 4			
	Moelfre Issa from the West End of the Base				17601,9

The mean distance between Moelfre Issa and the West End of the Base, viz. 17602,2 feet used in the above triangle, gives the distance between Moelfre Issa and Gwaunysgaer Down Stations = 47372 feet.

XLI.	Gwaunysgaer Down -	37 42 34,75	+0,03	37 42 34,75	
	Moelfre Issa - -	117 26 11,25	−06,7	117 26 10,9	
	Great Orme's Head -	. . .		24 51 14,75	
	Great Orme's Head from			Gwaunysgaer Down	100030,7
				Moelfre Issa - -	68938,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XLII.	Moelfre Issa - -	21 49 26	+0,12	21 49 26	
	Llanelian Mountain	138 45 47	—0,86	138 45 46	
	Great Orme's Head -	. . .		19 24 48	
	Llanelian Mountain from			Moelfre Issa -	34761,3
				Great Orme's Head	38879,2
XLIII.	Llanelian Mountain	124 52 10,5	—0,10	124 52 10,5	
	Garreg Mountain -	15 12 25	+1,42	15 12 26,5	
	Great Orme's Head	. . .		39 55 23	
	Garreg Mountain from			Llanelian Mountain	95119,4
				Great Orme's Head	121605,2
XLIV	Llanelian Mountain -	100 7 44,5	—1,65	100 7 42,75	
	Garreg Mountain -	46 10 32,5	—0,50	46 10 32	
	Arrennig Mountain	. . .		33 41 45,25	
	Arrennig Mountain from			Llanelian Mountain	123697,2
				Garreg Mountain	168780,8
XLV.	Garreg Mountain -	52 12 59	—0,48	52 12 58,5	
	Cyrn y Brain - -	92 33 31,5	—1,59	92 33 30	
	Arrennig Mountain -	. . .		35 13 31,5	
	Cyrn y Brain Mountain from			Garreg Mountain	97449*
				Arrennig Mountain	133525,4
XLVI.	Garreg Mountain -	98 23 31,5	—1,02	98 23 30,5	
	Llanelian Mountain -	41 24 11,25	—0,51	41 24 10,75	
	Cyrn y Brain Mountain	40 12 19,25	—0,64	40 12 18,75	
		180 0 2			
	Cyrn y Brain Mountain from			Garreg Mountain	97451,1*
				Llanelian Mountain	145773,8

Mean distance between the Stations on Cyrn y Brain and Garreg Mountains 97450 feet

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XLVII.	Garreg Mountain -	62 29 13,75	—1,16	62 29 12,75	
	Cyrn y Brain Mountain	74 23 15,5	—1,64	74 23 14,5	
	Delamere Forest -	43 7 33	—0,83	43 7 32,75	
		180 0 2,25			
	Delamere Forest from { Garreg Mountrin -				137294
	Delamere Forest from { Cyrn y Brain Mountain				126431,6
XLVIII.	Cyrn y Brain Mountain	45 50 51,5	—1,16	45 50 50,5	
	Delamere Forest -	89 38 38,5	—1,91	89 38 37	
	Ashley Heath - -	44 30 32,75	—1,02	44 30 32,5	
		180 0 2,75			
	Ashley Heath from { Cyrn y Brain Mountain				180350*
	Ashley Heath from { Delamere Forest -				129401,1
XLIX.	Delamere Forest -	38 8 17,5	—0,56	38 8 17	
	Ashley Heath - -	58 17 24,5	—0,60	58 17 24	
	Mow Copt - -	. . . .		83 34 19	
	Mow Copt from { Delamere Forest				110780,5
	Mow Copt from { Ashley Heath -				80418,3
L.	Ashley Heath - -	45 40 38	—0,39	45 40 37,5	
	Weaver Hill -	42 11 18,75	—0,40	42 11 18,5	
	Mow Copt - -	. . .		92 8 4	
	Weaver Hill from { Ashley Heath				119663,4
	Weaver Hill from { Mow Copt -				85668,3
LI.	Weaver Hill - -	64 23 4,75	—0,96	64 23 3,75	
	Castle Ring - -	61 9 42,75	—0,96	61 9 42	
	Ashley Heath - -	. . .		54 27 14,25	
	Castle Ring from { Weaver Hill -				111148,1*
	Castle Ring from { Ashley Hill -				123178,4*

In the Account of the Trigonometrical Operations, published in the Philosophical Transactions in the year 1803, page 433, Part II. it will be seen that the distance between Castle Ring and the station on Orpit Heights, was found to be 153235,2 feet, which distance entirely depended on the base of verification on Misterton Carr.—This side 153235,2 feet in the 37th Triangle of the present work, viz. Orpit Heights, Castle Ring, and Weaver Hill gives 111144,1 feet for the distance between Castle Ring and Weaver Hill. But by the above triangle, Weaver Hill, Castle Ring, and Ashley Heath, that distance is found to be 111148,4 feet, and depending altogether on the base line recently measured on Rhuddlan Marsh. The difference between the independent results in a line exceeding twenty-one miles in length is 4,3 feet; therefore, if the computation had been carried on directly from one base to the other, as for instance, from Misterton Carr to Rhuddlan Marsh, the measured and computed lengths of the latter base, would not have differed more than nine inches and an half.

Cyrn y Brain Mountain from Arrennig Mountain 133525,4 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
LII	Cyrn y Brain Mountain	78° 27′ 46″,5		78° 27′ 44″,75	
	Long Mountain -	47 56 2,5		47 56 1,25	
	Arrennig Mountain -			53 36 14	
	Long Mountain from { Cyrn y Brain Mountain				144778,5
	Long Mountain from { Arrennig Mountain -				176229,4
LIII	Cyrn y Brain Mountain	38 16 4	—0,97	38 16 3	
	Long Mountain -	93 3 53,25	—2,15	3,51	
	The Wrekin - -	. . .		40 .6	
	The Wrekin from { Cyrn y Brain Mountain				92531,1
	The Wrekin from { Long Mountain -				19411,8
LIV	Cyrn y Brain Mountain	30 28 30,5	—1,1	30 28 29,5	
	Ashley Heath -	81 36 1,5	—1,77	81 35 59,75	
	The Wrekin -	. . .	.	67 55 30,75	
	Ashley Heath from { Cyrn y Brain Mountain				80352,2
	Ashley Heath from { The Wrekin - -				98702,9

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LV.	Ashley Heath - -	75 28 8,25	—1,11	75 28 7,25	
	Castle Ring - -	44 9 15,5	—0,7	44 9 14,75	
	The Wrekin -	. . .		60 22 38	
		Castle Ring from { Ashley Heath -			123174,7*
		Castle Ring from { The Wrekin -			137161,6
LVI.	Castle Ring - -	89 55 48,75	—0,8	89 55 48	
	Bar Beacon - -	69 24 32	—0,42	69 24 31,5	
	The Wrekin - -	. . .		20 39 40,5	
		Bar Beacon from { Castle Ring -			51699,3*
		Bar Beacon from { The Wrekin -			146522,3

Distance from Castle Ring to Corley — 123539,7 feet. Phil. Trans. 1803, p. 433.

LVII	Castle Ring - -	35 56 1	—0,25	35 56 0,75	
	Bar Beacon - -	123 41 19	—1,04	123 41 18	
	Corley - -	. . .		20 22 41,25	
		Bar Beacon from { Castle Ring -			51700,5*
		Bar Beacon from { Corley - -			87131*

Distance from Bardon Hill to Corley 106357,3 feet. Phil. Trans. 1803, p. 433.

LVIII.	Bardon Hill - -	38 8 41,75	—0,51	38 8 41,5	
	Corley - -	92 55 30	—1,13	92 55 29	
	Bar Beacon - -	48 55 50	—0,49	48 55 49,5	
		180 0 1,75			
		Bar Beacon from { Bardon Hill -			140890
		Bar Beacon from { Corley - -			87134,5*

From the two first of the last three triangles, we have another verification of the bases on Rhuddlan Marsh and Misterton Carr. The distance from Castle Ring to Bar Beacon, as deduced from the base on the latter spot, is 51700,5 feet and 51699,3 feet, as derived from the base line measured on the former.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LIX.	Cyrn y Brain Mountain	55 20 35,5	—2,13	55 20 33,25	
	Ashley Heath - -	65 58 36,25	—2,54	65 58 33,75	
	Pole on Long Mount Forest - -	. . .		58 40 53	
	Long Mount Pole from { Cyrn y Brain Mountain				192824,7*
	Long Mount Pole from { Ashley Heath - -				173653,9
	Mean distance from Cyrn y Brain Mountain to Ashley Heath 180351,1 feet.				
LX.	Cyrn y Brain Mountain	62 23 4	—1,44	62 23 2,5	
	Ashley Heath - -	39 59 20,25	—0,98	39 59 19,25	
	Rodney's Pillar -	. . .		77 37 38,25	
	Rodney's Pillar from { Cyrn y Brain Mountain				118655,9
	Rodney's Pillar from { Ashley Heath - -				163604,2*
LXI.	Delamere Forest -	55 4 35,5	—1,5	55 4 34	
	Ashley Heath - -	84 29 50,75	—2,25	84 29 48,5	
	Rodney's Pillar -	. . .		40 25 37,5	
	Rodney's Pillar from { Delamere Forest				198625,6
	Rodney's Pillar from { Ashley Heath -				163610*
	Mean distance from Ashley Heath to Rodney's Pillar 163607,1 feet.				
LXII.	Ashley Heath - -	47 26 30,25	—1,41	47 26 28,75	
	Brown Clay Hill -	64 19 8	—1,63	64 19 6,5	
	Rodney's Pillar -	. . .		68 14 24,75	
	Brown Clay Hill from { Ashley Heath				168604,7*
	Brown Clay Hill from { Rodney's Pillar				133719,9
LXIII.	Ashley Heath - -	21 27 5,75	—1,05	21 27 5	
	Brown Clay Hill -	83 43 56	—0,64	83 43 55,25	
	Long Mount Pole -	. . .		74 48 59,75	
	Brown Clay Hill from { Ashley Heath -				168600*
	Brown Clay Hill from { Long Mount Pole -				63889,2

Mean distance from Brown Clay Hill to Ashley Heath 168602,3 feet.

No. of Triangles.	Names of Stations	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXIV.	Ashley Heath - -	51 18 50	+0,03	51 18 50	
	Brown Clay Hill -	19 10 2	—0,32	19 10 1,75	
	Hawkeston Obelisk -	. . .		109 31 7,5	
	Hawkeston Obelisk from { Ashley Heath -				58731,6*
	Hawkeston Obelisk from { Brown Clay Hill -				139632,9
LXV.	Delamere Forest -	25 48 17,5	—0,46	25 48 17	
	Ashley Heath - -	80 37 21	—0,7	80 37 20,25	
	Hawkeston Obelisk -	. . .		73 34 22,75	
	Hawkeston Obelisk from { Delamere Forest -				133105,1*
	Hawkeston Obelisk from { Ashley Heath -				56726,2*
LXVI.	Cyrn y Brain Mountain	60 26 45,5	—1,19	60 26 44,25	
	Delamere Forest -	63 50 21	—1,23	63 50 19,75	
	Hawkeston Obelisk -	. . .		55 42 56	
	Hawkeston Obelisk from { Cyrn y Brain Mountain				137342,6*
	Hawkeston Obelisk from { Delamere Forest -				133108,8*
LXVII.	Long Mountain -	59 58 33,5	—1,26	59 58 32,25	
	Cyrn y Brain Mountain	54 8 40	—1,2	54 8 38,75	
	Hawkeston Obelisk -	. . .		65 52 49	
	Hawkeston Obelisk from { Long Mountain - -				128566,4
	Hawkeston Obelisk from { Cyrn y Brain Mountain				137342*

Distance from the Long Mountain to the Wrekin 119411,8 feet.

LXVIII.	Long Mountain -	84 0 3,5	—1,29	84 0 2,25	
	Stow Hill - -	52 20 58	—0,79	52 20 57,25	
	The Wrekin -	. . .		43 39 0,5	
	Stow Hill from { Long Mountain -				104104,3
	Stow Hill from { The Wrekin -				149994,2

fee.

No. of Triangles.	Names of Stations.	Observed Angles	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXIX	Stow Hill - -	23 28 32	—0,03	23 28 32	
	Brown Clay Hill -	122 50 14,5	—1,53	122 50 13	
	The Wrekin - -	. . .		33 41 15	
	Brown Clay Hill from { Stow Hill -				99017,7
	Brown Clay Hill from { The Wrekin				71114,3
LXX	Stow Hill - -	40 7 52		40 7 52	
	Brown Clay Hill -	47 12 31		47 12 31	
	Long Mount Pole -	. . .		92 39 37	
	Long Mount Pole from Stow Hill				72740,8
LXXI.	Stow Hill - -	56 46 16	—1,16	56 46 15	
	Brown Clay Hill -	89 6 55	—1,67	89 6 53,5	
	Malvern Station -	34 6 52	—1	34 6 51,5	
		180 0 3			
	Malvern Station from { Stow Hill -				176529,8
	Malvern Station from { Brown Clay Hill				147682,1
LXXII.	Stow Hill - -	67 53 50	—1,38	67 53 48,75	
	Malvern Station -	49 58 40,5	—1,76	49 58 38,75	
	Cradle Mountain -	. . .		62 7 32,5	
	Cradle Mountain from { Malvern Station				185023,2
	Cradle Mountain from { Stow Hill -				152928,4
	Mean distance from Cyrn y Brain Mountain to Garreg Mountain 97450 feet.				
LXXIII.	Cyrn y Brain Mountain	69 54 7	—1,37	69 54 5,75	
	Garreg Mountain -	81 7 0,25	—1,77	81 6 58,5	
	Snowdon - -	. . .		28 58 55,75	
	Snowdon from { Cyrn y Brain Mountain -				198707,2
	Snowdon from { Garreg Mountain - -				188872,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
LXIV.	Garreg Mountain -	36° 1′ 24″,75	-1,49	36° 1′ 23″,25	
	Llanelian Mountain	58 20 7,25	-1,56	58 20 5,75	
	Snowdon - - -			85 38 31	

Llanelian Mountain in Anglesea, from	Garreg Mountain	221266*
	Snowdon -	130506

Distance from Llanelian Mountain, Denbighshire, to Garreg Mountain 95119,4 feet.

LXXV.	Llanelian Mountain	148 8 2,5	—5,4	148 7 57	
	Garreg Mountain -	18 44 53,5	+2,27	18 44 55,75	
	Llanelian Mountain, Anglesea, - -	13 7 8,25	+1,45	13 7 7,25	
		180 0 4,25			
	Llanelian Mountain from	Garreg Mountain -			221259*
		Llanelian Mountain, in Denbighshire -			134792,5
LXXVI.	Llanelian Mountain, Anglesea - -	103 47 38	—1,14	103 47 36,75	
	Moel Rhyddlad	55 44 39,25	—0,15	55 44 39	
	Snowdon - - -	. . .		26 27 44,25	
	Moel Rhyddlad from	Llanelian Mountain, Anglesea			55199,1
		Snowdon - - - -			153342,7
LXXVII.	Moel Rhyddlad -	31 43 44,5	—0,07	31 43 43,5	
	Llanelian Mountain, Anglesea - -	111 13 19	—0,45	111 13 17,5	
	Llwydiart Mountain -	37 2 59,75	—0,05	37 2 59	
		180 0 3,25			
	Llwydiart Mountain from	Moel Rhyddlad - - -			85402,9*
		Llanelian Mountain, Anglesea			48180,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXVIII.	Moel Rhyddlad - -	24 0 54,75	+0,19	24 0 55	
	Llwydiart Mountain -	131 13 8	—1,81	131 13 7,75	
	Snowdon - - -	. . .		24 45 57,75	
	Llwydiart Mountain from { Moel Rhyddlad				85399,4*
	Llwydiart Mountain from { Snowdon -				82966,6
LXXIX.	Llanelian Mountain, Anglesea - - -	8 49 1,5	+0,21	8 49 1,75	
	Llanelian Mountain, Denbighshire -	23 15 52	+1,10	23 15 53	
	Great Orme's Head -	. . .		147 55 5,25	
	Great Orme's Head from { Llanelian Mountain, Denbighsh.				38874,7*
	Great Orme's Head from { Llanelian Mountain, Anglesea -				100172,7*
LXXX.	Llanelian Mountain, Anglesea - - -	46 36 31,75	—0,10	46 36 31,76	
	Llwydiart Mountain -	105 49 45	—0,58	105 49 44,25	
	Great Ormes Head -	. . .		27 33 44	
	Great Orme's Head from { Llanelian Mountain, Anglesea				100178*
	Great Orme's Head from { Llywdiart Mountain - -				75666,6
LXXXI.	Llanelian Mountain, Anglesea - - -	98 31 59	—0,62	98 31 58,5	
	Llwydiart Mountain -	54 55 34	—0,17	54 55 33,75	
	Signal Staff, Holyhead	. . .		26 32 27,75	
	Signal Staff, Holyhead, from { Llanelian Mountain, Anglesea				88245,4
	Signal Staff, Holyhead, from { Llwydiart Mountain - -				106631,7*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXXII.	Moel Rhyddlad - -	116 10 1,5	—0,68	116 10 0,75	
	Llwydiart Mountain -	17 52 34,25	—0,09	17 52 34,25	
	Signal Staff, Holyhead	. . .		45 57 25	
	Signal Staff, Holyhead from			Moel Rhyddlad -	36469,3
				Llwydiart Mountain	106631,6*
LXXXIII.	Llwydiart Mountain -	65 9 1	—1,32	65 8 59,75	
	Rhiw Mountain - -	33 24 7,5	—1,15	33 24 6,25	
	Signal Staff, Holyhead	. . .		81 26 54	
	Rhiw Mountain from			Llwydiart Mountain -	191543,9*
				Signal Staff, Holyhead	175763,1
LXXXIV.	Llwydiart Mountain -	83 1 35,25	—1,59	83 1 33,75	
	Moel Rhyddlad - -	71 53 58,5	—1,19	71 53 57,25	
	Rhiw Mountain - -	. . .	?	25 4 29	
	Rhiw Mountain from			Llwydiart Mountain	191540,4*
				Moel Rhyddlad -	200022
LXXXV.	Moel Rhyddlad - -	47 53 3,75	—1,47	47 53 2,25	
	Rhiw Mountain - -	49 29 29	—1,5	49 29 27,5	
	Snowdon - - -	. . .		82 37 30,25	
	Rhiw Mountain from			Moel Rhyddlad	200017,7*
				Snowdon -	149608,4
LXXXVI.	Moel Rhyddlad - -	78 24 43	—1,12	78 24 41,75	
	Llwydiart Mountain -	78 18 19,5	—1,11	78 18 18,5	
	Ynaliog Mountain -	. . .		23 16 59,75	
	Ynaliog Mountain from			Moel Rhyddlad -	211568,7*
				Llwydiart Mountain	211649,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXXVII	Moel Rhyddlad - -	6 30 44,5	—0,22	6 30 44,25	
	Rhiw Mountain -	112 59 8,75	—1,65	112 59 7	
	Ynaliog Mountain -	. . .		60 30 8,75	
	Ynaliog Mountain from { Moel Rhyddlad				211562,5*
	Ynaliog Mountain from { Rhiw Mountain				26063,2
LXXXVIII	Moel Rhyddlad - -	48 35 21,75	—0,10	48 35 21,75	
	Llwydiart Mountain -	95 4 5	—1,18	95 4 3,75	
	Bwlch Mawr - - -	. . .		36 20 34,5	
	Bwlch Mawr from { Moel Rhyddlad -				143545,3*
	Bwlch Mawr from { Llwydiart Mountain				108077,8
LXXXIX.	Moel Rhyddlad -	23 18 36,75	—0,26	23 18 36,5	
	Rhiw Mountain - -	39 47 36,25	—0,38	39 47 35,75	
	Bwlch Mawr - -	. . .		116 53 47,75	
	Bwlch Mawr from { Moel Rhyddlad				143544,4*
	Bwlch Mawr from { Rhiw Mountain				88749,9
XC.	Rhiw Mountain - -	67 56 45,75	—0,93	67 56 44,75	
	Pengarn Mountain -	36 35 43,5	—0,73	36 35 42,75	
	Bwlch Mawr - - -	. . .		75 27 32,5	
	Pengarn Mountain from { Rhiw Mountain				144101,3*
	Pengarn Mountain from { Bwlch Mawr -				137976,8
XCI.	Rhiw Mountain - -	58 14 49,5	—1,40	58 14 48	
	Pengarn Mountain -	62 48 16,25	—1,46	62 48 14,75	
	Snowdon - - - -	. . .		58 56 57,25	
	Pengarn Mountain from { Rhiw Mountain				144101,6*
	Pengarn Mountain from { Snowdon - -				143027,1

Mean distance from Pengarn Mountain to Rhiw Mountain 144101,4 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XCII.	Aberystwith Station -	45 23 56,5	—0,22	45 23 56,25	
	Pengarn Mountain -	107 56 47,5	—2,20	107 56 45,25	
	Rhiw Mountain - -	26 39 20		26 39 18,5	
		180 0 4			
	Aberystwith from			Rhiw Mountain -	192534,5*
				Pengarn Mountain	90794
XCIII.	Rhiw Mountain -	84 54 5,5	″	84 54 2	
	Aberystwith - - -	39 44 28	″	39 44 26,5	
	Snowdon - - -	. . .		55 21 31,5	
	Aberystwith from			Rhiw Mountain -	192530,4*
				Snowdon - -	233088,1

Mean distance from Aberystwith station to Rhiw Mountain 192532,5 feet.

XCIV.	Aberystwith - - -	60 6 50		60 6 48,5	
	Rhiw Mountain - -	32 57 28		32 57 27,5	
	Cader Idris - - -	. . .		86 55 44	
	Cader Idris from			Aberystwith -	104891,8
				Rhiw Mountain -	167168,5*
XCV.	Rhiw Mountain - -	6 18 12	+0,09	6 18 12	
	Pengarn Mountain -	140 14 21	—2,26	140 14 18,75	
	Cader Idris - - -	. . .		33 27 29,25	
	Cader Idris from			Rhiw Mountain -	167171,4*
				Pengarn Mountain	28696,5

The distance from Rhiw Mountain to Snowdon, viz. 149608,4 feet, and the distance of Cader Idris from Rhiw Mountain, as found by the above triangle, viz. 167171,4 feet, together with the included angle at the latter station, give 139622,7 feet for the distance between Snowdon and Cader Idris.

Distance from Cyrn y Brain Mountain to Garreg Mountain 97450 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XCVI.	Cyrn y Brain Mountain	112 12 59	—2,55	112 12 47,5	
	Garreg Mountain -	41 30 7	—0,16	41 30 7	
	Arran Fowddy - -	. . .		26 17 5,5	
	Arran Fowddy Mountain from	Cyrn y Brain Mountain			145821,6*
		Garreg Mountain -			203727,7

Distance from Long Mountain to Cyrn y Brain Mountain 144778,5 feet.

XCVII.	Cyrn y Brain Mountain	58 48 27,5	—1,39	58 48 26	
	Long Mountain -	60 57 38	—1,42	60 57 36,5	
	Arran Fowddy - -	. . .		60 13 57,5	
	Arran Fowddy Mountain from	Cyrn y Brain Mountain			145818,1*
		Long Mountain - -			142673,8

Distance from Long Mountain to Stow Hill 104104,3 feet.

XCVIII.	Long Mountain -	54 0 22,75	—0,69	54 0 22	
	Stow Hill - -	67 32 20	—0,80	67 32 19	
	Blandinam Mountain or Peggwns Fawr -	58 27 20	—0,72	58 27 19	
		180 0 2,75			
	Blandinam Mountain from	Long Mountain			112887,7
		Stow Hill -			98832,9
XCXIX.	Llandinam Mountain	93 14 18	—1,10	93 14 17	
	Long Mountain -	33 16 39	—0,49	33 16 38,5	
	Radnor Forest - -	53 29 5	—0,46	53 29 4,5	
		180 0 2			
	Radnor Forest from	Llandinam Mountain			77069,6*
		Long Mountain - -			140236,4

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
c.	Llandinam Mountain	34 46 58	—0,24	34 46 57,75	
	Stow Hill -	51 3 12	—0,24	51 3 11,75	
	Radnor Forest -	94 9 50	—0,56	94 9 50,5	
		180 0 0			
	Radnor Forest from			Llandinam Mountain	77068,8*
				Stow Hill - -	56530
c1.	Llandinam Mountain	77 33 7	—0,61	77 33 6,5	
	Radnor Forest -	57 22 2	—0,53	57 22 1,5	
	Dwggan Mountain -	. . .		45 4 52	
	Dwggan Mountain from			Llandinam Mountain	91665,4
				Radnor Forest -	108279,3
	Distance from Stow Hill to Cradle Mountain 152928,4 feet.				
c11	Stow Hill - -	40 54 57,25	+0,26	40 54 57,5	
	Radnor Forest - -	120 30 47	—1,53	120 30 45,5	
	Cradle Mountain -	. . .		18 34 17	
	Radnor Forest from			Stow Hill -	56534,6*
				Cradle Mountain	116260,7
c111.	Long Mountain -	67 58 3,25	—1,24	67 58 2	
	Llandinam Mountain	65 49 26	—1,53	65 49 24,5	
	Arran Fowddy -	. . .		46 12 33,5	
	Arran Fowddy from			Long Mountain	142665,2*
				Llandinam Mountain	144961
c1v.	Llandinam Mountain	54 55 22	—0,46	54 55 21,5	
	Plynlimmon - -	92 2 9,5	—1,23	92 2 8,25	
	Arran Fowddy -	. . .		33 2 30,25	
	Plynlimmon from			Llandinam Mountain	79089,9*
				Arran Fowddy -	118707,7

Mean distance from Llandinam Mountain to Radnor Forest 77069,2 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cv.	Llandinam Mountain	146 0 51,75	−2,31	146 0 49,5	
	Plynlimmon -	16 46 1,25	+0,73	16 46 2	
	Radnor Forest -	. . .		17 13 8,5	
	Plynlimmon from	Llandinam Mountain			79083,9*
		Radnor Forest - -			149336,8

The distance from Llandinam Mountain to Long Mountain is 112887,7 feet, and from Plynlimmon 79089,9 feet. These distances, with the included angle at Llandinam Mountain, viz. 120° 44′ 48″,5 give 167714,3 feet for the distance between Long Mountain and Plynlimmon.

cvi.	Long Mountain -	57 5 6		57 5 4,5	
	Plynlimmon - -	64 3 40,5		64 3 39	
	Arrennig - -	. . .		58 51 16,5	
	Arrennig from	Long Mountain -			176219,4*
		Plynlimmon -			164503,7
cvii.	Long Mountain -	29 5 39	−0,92	29 5 38	
	Plynlimmon - -	85 5 20	−1,57	85 5 18,5	
	Cader Idris -	. . .		65 49 3,5	
	Cader Idris from	Long Mountain			183172,6
		Plynlimmon -			89394,5*

Distance from Aberystwith Station to Cader Idris 104891,8 feet.

cviii.	Aberystwith -	57 53 27,5		57 53 27	
	Plynlimmon	83 35 11,5		83 35 11	
	Cader Idris -	. . .		38 31 22	
	Plynlimmon from	Aberystwith -			65740,7
		Cader Idris -			89406,8*

The distance from Garreg Mountain to Snowdon is 188872,5 feet, and from Arrennig 168780,8 feet. The included angle at Garreg Mountain is 28° 54′ 0″. These data give 91343,2 feet for the distance from Arrennig to Snowdon. Also

The distance from Long Mountain to Arrennig is 176229,8 feet, and from Cader Idris 183172,6 feet. These, with the included angle at Long Mountain, viz. 27° 59′ 26″ give 87179,2 feet for the distance between Arrennig and Cader Idris.

Distance from Bar Beacon to The Wrekin 146522,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	
cix	Bar Beacon -	26 47 0	—0,62	26 46 59,5	Feet.
	Brown Clay Hill	68 11 15,75	0,71	68 11 15	
	The Wrekin -			85 1 45,5	

Brown Clay Hill from { Bar Beacon 157228
The Wrekin 71116,9

The distance from Brown Clay Hill to Bar Beacon is 157228 feet, and from the station on Malvern Hills 147682,1 feet. The included angle at Brown Clay Hill corrected for calculation is 79° 51′ 34″. These data give 195843 feet for the distance between Bar Beacon and the station on Malvern Hills, and 47° 55′ 41″,6 for the angle at Bar Beacon between Brown Clay Hill and Malvern Hills. Again,

The distance from Corley to Broadway Beacon is 171568 feet, and from Bar Beacon 87132,7 feet. The angle at Corley, between Broadway Beacon and Bar Beacon, is 96° 33′ 50″. This angle and these sides give 201110,7 feet for the distance between the two last stations, and 57° 56′ 31″,5 for the angle at Bar Beacon between Corley and Broadway Beacon.

Now the angle at Bar Beacon between Corley and Brown Clay Hill was observed, and found to be 140° 7′ 5″. And if from this angle we subtract the two angles at Bar Beacon, as just found, viz. 47° 55′ 41″,5 and 57° 56′ 31″,5, we shall get 34° 14′ 52″ for the angle at Bar Beacon between Broadway Beacon and the station on Malvern Hills. The distances from Bar Beacon to those two stations, are 201110,7 feet and 195843 feet respectively. These, with the angle at Bar Beacon, 34° 14′ 25″ give 116986,8 feet for the distance between Broadway Beacon and the station on Malvern Hills.

It may not be, perhaps, improper to state in this place, that a station towards the centre of this pentagon was chosen for the purpose of subdividing it into the necessary triangles. The spot selected was near Waltham, and observed from Broadway Beacon and Bar Beacon, forming the following triangle.

cx	Broadway Beacon	16 31 57
	Bar Beacon -	39 4 45
	Waltham -	

from which, with the distance between Bar Beacon and Broadway Beacon, viz. 201110,7 feet, we get 153628,4 feet for the distance between Broadway Beacon and Waltham Hill, and 69348 feet between Bar Beacon and Waltham Hill.

When the party with the instrument were at the station on Brown Clay Hill, a

staff was erected over what was supposed to be the true station on Waltham Hill. It was accordingly observed; but, after the instrument was removed, some suspicions being entertained as to the identity of the point, the person appointed to fix the staff, stated that he could not find the marks put into the ground for distinguishing the station, and therefore chose another station as near to the former one as he well could guess. This, however, not being satisfactory, and the station conceived to be really lost, the instrument was not taken to Waltham Hill.

* Distance from Stow on the Wold to Broadway Beacon 52203,2 feet.

No of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″		Feet.
CXI	Stow on the Wold -	51 44 55,75	-0,19	51 44 55,5	
	Broadway Beacon -	78 53 7,75	-0,27	78 53 7,5	
	Cleeve - -	49 21 57,75	-0,17	49 21 57	
		180 0 1,25			
	Cleeve from { Stow on the Wold -				67499,3
	Broadway Beacon -				54020,6
CXII.	Broadway Beacon	59 28 16	-0,4	59 28 16	
	Cleeve -	93 4 9	-0,21	93 4 9	
	Malvern Hills -	27 27 35	-0,19	27 27 35	
		180 0 0			
	Malvern Hills from { Cleeve -				100909,6
	Broadway Beacon				116981,7*
CXIII	Malvern Hills	64 46 19	—0,59	64 46 18,5	
	Cleeve -	48 29 40,5	,61	48 29 40	
	May Hill -	66 44 2	—0,41	66 44 1,5	
		180 0 1,5			
	May Hill from { Malvern Hill				82260*
	Cleeve				99365,2

Distance from Cradle Mountain to Malvern Hills 185023,2 feet.

CXIV	May Hill -	97 43 34	—1,63	97 43 32,25	
	Malvern Hill	56 8 17,25	—0,53	56 8 16,75	
	Cradle Mountain			26 8 11	
	May Hill from { Cradle Mountain				155047,6
	Malvern Hills -				82251,1*

From the triangle Malvern Hills, Cleeve, and May Hill, we find the distance from May Hill to the station on Malvern Hills is 82260 feet, which distance is found by using in calculation the base on Hounslow Heath; but in the last triangle, the distance between those two stations is found to be 82251,1 feet, which determination is the result of computing with the base line recently measured on Rhuddlan Marsh.

The mean distance, therefore, between May Hill and Malvern Hills is 82255,6 feet, which, used in the last triangle, gives 185033,4 feet for the side Cradle Mountain and Malvern Hills, and 155056,1 feet for the side Cradle Mountain and May Hill.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxv.	Malvern Hills - -	40 14 17 e	—1,07	40 14 16	
	Trelleg Beacon -	83 11 45,5	—1,92	83 11 43,5	
	Cradle Mountain -	. . .		56 34 0,5	
	Trelleg Beacon from			Malvern Hill -	155511,2
				Cradle Mountain	120372,3*
cxvi.	May Hill - -	49 56 24,25	—0,26	49 56 24	
	Trelleg Beacon -	92 37 48	—0,87	99 37 47	
	Cradle Mountain -	. . .		30 25 49	
	Trelleg Beacon from			Cradle Mountain	120371,3*
				May Hill -	79656,6
cxvii	May Hill - -	69 12 37,75	—0,56	69 12 36	
	Trelleg Beacon -	59 21 23	—0,51	59 21 21,5	
	Symmond's Hall -	51 26 4	—0,47	51 26 2,5	
		180 0 4,75			
	Symmond's Hall from			May Hill -	87650
				Trelleg Beacon	95243,5
cxviii.	Symmond's Hall -	69 15 59	—1,13	69 15 58	
	Malvern Hills - -	34 56 38,25	—0,88	34 56 37,25	
	Trelleg Beacon -	75 47 26	—1,13	75 47 24,75	
		180 0 3,25			
	Symmond's Hall from			Malvern Hills -	161192,7
				Trelleg Beacon	95240,5*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXIX.	Trelleg Beacon -	56 17 9,25	—0,6	56 17 8,75	
	Mynydd Mane -	78 56 8	—0,84	78 56 7	
	Cradle Mountain -	. . .		44 46 44,25	
	Mynydd Mane from { Trelleg Beacon -				86392,7
	Mynydd Mane from { Cradle Mountain				102023,6
CXX.	Mynydd Mane -	89 22 39,25	—1,34	89 22 38	
	Llangeinor Mountain	42 1 14	—0,66	42 1 13,25	
	Cradle Mountain -	. . .		48 36 8,75	
	Llangeinor Mountain from { Cradle Mountain				152403,1
	Llangeinor Mountain from { Mynydd Mane				114330,3
CXXI.	Mynydd Mane - -	37 25 37,5	—0,15	37 25 37,25	
	Llangeinor Mountain	35 36 25	—0,17	35 36 25	
	Garth Hill - -	106 57 58,5	—0,79	106 57 57,75	
		180 0 1			
	Garth Hill from { Mynydd Mane -				69594,5
	Garth Hill from { Llangeinor Mountain				72646
CXXII.	Llangeinor Mountain	67 3 52,5	—0,36	67 3 53	
	Garth Hill - -	51 2 32	—0,3	51 2 32,5	
	Ogmoor Down -	61 53 34,5	—0,35	61 53 34,5	
		179 59 59			
	Ogmoor Down from { Llangeinor Mountain				64045
	Ogmoor Down from { Garth Hill				75847,9

ART. VI. *Junction of the Triangles carried on in South Wales, with those southward of the Severn and Bristol Channel.*

Distance from Moor Lynch to the station on Mendip Hills 78876,8 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
					Feet.
cxxiii.	Moor Lynch	43 41 45	-0,27	43 41 44,75	
	Mendip -	61 17 47	—0,29	61 17 46,75	
	Blagdon	75 0 29	—0,35	75 0 28,5	
		180 0 1			
		Blagdon from	Moor Lynch -		71622
			Mendip - -		56410,5
cxxiv	Mendip -	33 39 30,5	—0 13	33 39 30,5	
	Blagdon -	91 46 4	,33	91 46 4	
	Dundry Beacon	54 34 24,5	—0,12	54 34 25,5	
		180 0 0			
		Dundry Beacon from	Mendip -		69194,1
			Blagdon -		38368,5

Distance from Moor Lynch to Pilsdon 118231,8 feet.

cxxv.	Moor Lynch	87 15 6		87 15	
	Pilsdon -	33 58 2		33 58	
	Bagborough	58 46 52		58 46 52	
		180 0 0			
		Bagborough from	Moor Lynch		77243,7
			Pilsdon -		138092,8
cxxvi.	Moor Lynch	117 40 36,75	—1,06	117 40 35,75	
	Bagborough	29 51 13,25	—0,05	29 51 13,25	
	Blagdon	32 28 11,5		32 28 11	
		180 0 1,5			
		Bagborough from	Moor Lynch		77243
			Blagdon -		127418,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXVII.	Bagborough -	131 59 32		131 59 32	
	Blagdon - -	19 57 6		19 57 6	
	Dunkery Beacon -	28 3 22		28 3 22	
		180 0 0			
	Dunkery Beacon from			Bagborough	92441,6
				Blagdon -	201350
CXXVIII.	Bagborough -	87 37 19,5		87 37 19	
	Dunkery Beacon -	48 7 46,25		48 7 46	
	Flatholmes Lighthouse	. . .		44 14 55	
	Flatholmes Lighthouse from			Bagborough -	98652,6*
				Dunkery Beacon	132367
CXXIX.	Bagborough - -	44 22 19,75	—0,63	44 22 19	
	Blagdon - - -	50 29 22	—0,55	50 29 21,5	
	Flatholmes Lighthouse	. . .		85 8 19,5	
	Flatholmes Lighthouse from			Bagborough -	98659*
				Blagdon - -	89427,1*
CXXX.	Moor Lynch - -	55 38 59	—0,43	55 38 58,5	
	Blagdon - -	82 57 35	—0,6	82 57 34,5	
	Flatholmes Lighthouse	. . .		41 23 27	
	Flatholmes Lighthouse from			Moor Lynch -	107505,8
				Blagdon -	89431,3*

The mean distance from Blagdon to the Flatholmes Lighthouse, viz. 89429,2 feet, and the distance 38368,5 feet from the same station to Dundry Beacon, with their included angle at Blagdon 110° 15′ 49″,75, give 108841 feet for the distance between Dundry Beacon and the Lighthouse.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxxxi.	Trelleg Beacon -	65 20 25,75	—0,88	65 20 25	
	Symmond's Hall -	70 4 23,5	—0,98	70 4 22,5	
	Dundry Beacon -	. . .		44 35 12,5	
	Dundry Beacon from			Trelleg Beacon	127553,2
				Symmond's Hall	123303,1
cxxxii.	Trelleg Beacon -	79 23 13,5	—1,04	79 23 12,5	
	Mynydd Mane - -	63 21 9	—0,71	63 21 8,25	
	Dundry Beacon -	. . .		37 15 39,25	
	Mynydd Mane from Dundry Beacon -				140270,6
cxxxiii.	Ogmoor Down -	109 40 6,75	—1,43	109 40 5,25	
	Garth Hill - -	42 42 28,75	—0,14	42 42 28,5	
	Dunkery Beacon -	. . .		27 37 26,25	
	Dunkery Beacon from			Ogmoor Down	110951,7
				Garth Hill -	154039
cxxxiv.	Ogmoor Down -	110 56 49,25	—2,42	110 56 46,75	
	Cefn Bryn - -	31 35 27,25	—0,57	31 35 26,75	
	Dunkery Beacon -	. . .		37 27 46,5	
	Cefn Bryn from			Ogmoor Down	128827,8
				Dunkery Beacon	197804,7
cxxxv.	Llangeinor Mountain	13 36 8,25	+0,98	13 36 9,25	
	Garth Hill - -	152 52 34	—2,55	152 52 31,5	
	Flatholmes Lighthouse	. . .		13 31 19,25	
	Flatholmes Lighthouse from			Llangeinor Mountain	141653,2
				Garth Hill - -	73087,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxxxvi.	Llangeinor Mountain	61 42 51,5		61 42 51,5	
	Garth Hill - -	93 44 58		93 44 58	
	Dunkery Beacon -			24 32 10,5	
	Dunkery Beacon from Llangeinor Mountain				174562,8

The angle at the station on Llangeinor Mountain 48° 6′ 43″, and the sides Llangeinor Mountain and Dunkery Beacon, Llangeinor Mountain and Flatholmes Lighthouse, as just found, give 132355,6 feet for the distance between Dunkery Beacon and Flatholmes Lighthouse, which deduction is founded on two base lines, viz. that measured on Rhuddlan Marsh, and that measured on Salisbury Plain. In a former triangle, viz. Bagborough, Dunkery Beacon, and Flatholmes Lighthouse, 132367 feet has been assigned for that distance, and proceeding directly from the base on Sedgemoor. The difference between the two results, all circumstances taken into the account, cannot be considered too great, the distance between Dunkery Beacon and the Flatholmes Lighthouse being something more than twenty-five miles.

The angle at Llangeinor Mountain 49° 12′ 34″, with the sides Llangeinor Mountain, Mynydd Mane, and Llangeinor Mountain, Flatholmes Lighthouse, viz. 114330,3 feet, 141653,2 feet respectively, give 109437 feet for the distance between Mynydd Mane and the lighthouse on the Flatholmes, and 78° 30′ 56″,5 for the angle at Mynydd Mane. This angle taken from the observed angle at Mynydd Mane between Llangeinor Mountain and Dundry Beacon 128° 20′ 3″,7, leaves 49° 49′ 7″ for the corrected angle between Dundry Beacon and the Lighthouse; which, with the side Mynydd Mane Dundry Beacon 140270,6 feet, and the side Mynydd Mane Flatholmes Lighthouse 109437 feet give 108827,1 feet for the distance from Dundry Beacon to the Lighthouse. This distance, previously computed and depending on the Sedgemoor base, is stated to be 108841 feet. Having thus joined the triangles north and south of the Severn and Bristol Channel, it will be now convenient to proceed with the calculation of the sides of the series proceeding from Ogmoor Down and Cefn Bryn along the southern coast of Wales.

cxxxvii.	Cefn Bryn - -	19 57 52	—0,11	19 57 52	
	Ogmoor Down -	43 7 52,75	—0,01	43 7 52,5	
	Margam Down -	116 54 16,5	—0,99	116 54 15,5	
		180 0 1,25			
	Margam Down from { Cefn Bryn -				98765.8
	Margam Down from { Ogmoor Down				49325,3*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXVIII.	Llangeinor Mountain	50 3 4,25	—0,08	50 3 4,25	
	Ogmoor Down -	34 21 34,25	—0,18	34 21 33,5	
	Margam Down - -	95 35 22,5	—0,23	95 35 22,25	
		180 0 1			
	Margam Down from	Llangeinor Mountain			*36317,3
		Ogmoor Down -			49331,1*
CXXXIX.	Margam Down - -	32 1 12	—0,37	32 1 11	
	Cefn Bryn - -	91 3 16,25	—0,35	91 3 15	
	Lannon - -	56 55 34,5	—0,34	56 55 34	
		180 0 2,75			
	Lannon from	Margam Down -			117843,6*
		Cefn Bryn -			62492,6
CXL.	Lannon - -	90 51 8	—0,34	90 51 7,5	
	Cefn Bryn - -	57 55 38,25	—0,44	57 55 38	
	Marros Beacon -	31 13 15	—0,36	31 13 14,5	
		180 0 1,25			
	Marros Beacon from	Lannon -			102163
		Cefn Bryn			120551,1
CXLI.	Marros Beacon -	115 22 29,5	—1,56	115 22 28	
	Lannon - -	28 46 25,25	—0,13	28 46 25	
	Precelly Top -	35 51 6,75	—0,15	35 51 7	
		180 0 1,5			
	Precelly Top from	Marros Beacon			83962,5
		Lannon -			157603
CXLII.	Marros Beacon -	83 40 20		83 40 20	
	Precelly Top - -	47 19 13		47 19 13	
	Highgate Mountain -	49 0 27,5		49 0 27	
		180 0 0,5			
	Highgate Mountain from	Marros Beacon			81773,5
		Precelly Top			110560,7

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXIII.	Highgate Mountain -	36 39 47		36 39 47	
	Plumstone Down -	98 31 13		98 31 13	
	Precelly Top - -	. . .		44 49 0	
	Plumstone Down from			Highgate Mountain	78797,4
				Precelly Top -	66753,5
CXLIV.	Precelly Top - -	20 26 6		20 26 6	
	Plumstone Down -	140 0 42,75		140 0 41	
	St. Ann's Hill - -	19 33 13		19 33 13	
		180 0 1,75			
	St. Ann's Hill from			Precelly Top -	128173,9
				Plumstone Down	69637

At Precelly Top, the angle between St. Ann's Hill and Highgate Mountain is 14° 22′ 54″. The distances from Precelly Top to those stations are 128173,9 feet and 110560,7 feet respectively. These data give 53271,6 feet for the distance between St. Ann's Hill and Highgate Mountain.

CXLV	Marros Beacon -	19 5 59,75		19 6 0	
	Highgate Mountain -	58 6 20,5		58 6 20	
	Newton Down -	102 47 40,5		102 47 40	
		180 0 0,75			
	Newton Down from			Marros Beacon -	71195,3*
				Highgate Mountain	27439
CXLVI	Marros Beacon -	64 34 25		64 34 25	
	Precelly Top - -	50 17 43		50 17 43	
	Newton Down -	65 7 51,5		65 7 52	
	Newton Down from			Marros Beacon	71198,2*
				Precelly Top -	83579,8

No. of Triangles.	Names of Stations.	Observed Angles	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXLVII.	Precelly Top - -	41 50 29		41 50 29	
	Plumstone Down -	85 23 56,5		85 23 57	
	Newton Down - -	52 45 34,5		52 45 34	
		180 0 0			
	Newton Down from	Precelly Top -			83580,6*
		Plumstone Down			55934,4*
CXLVIII.	Plumstone Down -	54 36 44		54 36 44	
	St. Ann's Hill - -	50 4 37		50 45 37	
	Newton Down -	74 37 39,25		74 37 39	
		180 0 0,25			
	Newton Down from	Plumstone Down			55935,4*
		St. Ann's Hill			58878,1
	Distance from Margam Down to Llangeinor Mountain 36317,3 feet.				
CXLIX.	Margam Down -	56 39 50,5	—0,05	56 39 50,5	
	Llangeinor Mountain	104 20 9,5	—0,55	104 20 9	
	Trecastle Beacon -	. . .		19 0 0,5	
	Trecastle Beacon from	Margam Down -			108076,2
		Llangeinor Mountain			93195,7
CL.	Margam Down -	58 49 18	—0,83	58 49 17,25	
	Lannon - -	56 12 10,5	—0,81	56 12 9,75	
	Trecastle Beacon -	. . .		64 58 33	
	Lannon from	Margam Down -			117843,1*
		Trecastle Beacon -			111268,8
CLI.	Lannon - -	74 9 13	—0,81	74 9 12,25	
	New Inn Hill -	63 13 18,25	—0,69	63 13 17,5	
	Trecastle Beacon -	. . .		42 37 30,25	
	New Inn Hill from	Trecastle Beacon			119898,7
		Lannon - -			84402,8*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLII.	Lannon - -	53 5 25	−0,59	53 5 24,5	
	Precelly Top -	32 15 36,75	−0,58	32 15 36,75	
	New Inn Hill - -	94 38 58,75	−0,08	94 38 58,75	
		180 0 0,5			
	New Inn Hill from {	Lannon -			84400,8*
		Precelly Top			126432,6
CLIII.	Precelly Top - -	29 42 12	−0,34	29 42 12	
	New Inn Hill -	59 49 29	−0,42	59 49 28,5	
	Capel Kynon - -	90 28 20,25	−0,8	90 28 19,5	
		180 0 1,25			
	Capel Kynon from {	Precelly Top			109303,4
		New Inn Hill			62650,6
CLIV	Capel Kynon - -	. . .		88 13 0,25	
	New Inn Hill -	47 8 36	−0,26	47 8 35,75	
	Talsarn - -	44 38 24,25	−0,24	44 38 24	
	Talsarn from {	Capel Kynon -			65361,8
		New Inn Hill -			89120,2*
CLV	Precelly Top - -	. . .		29 12 47	
	New Inn Hill -	106 58 5	−1,11	106 58 4	
	Talsarn - -	43 49 9	+0,06	43 49 9	
	Talsarn from {	Precelly Top -			174655,6
		New Inn Hill -			89121,7*
CLVI.	New Inn Hill -	95 9 38,5	−0,54	95 9 38	
	Talsarn - -	50 4 50,25	−0,27	50 4 50	
	Trecastle Beacon -	. . .		34 45 32	
	Talsarn from Trecastle Beacon -				155698,6

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLVII.	Talsarn - -	56 46 43	—0,33	56 46 42,75	
	Tregarron Down -	98 53 1	—1,15	98 53 0	
	Trecastle Beacon -	. . .		24 20 17,25	
	Tregarron Down from { Talsarn -				64945,7*
	Tregarron Down from { Trecastle Beacon				131832,6
	Distance from Aberystwith to Plynlimmon 65740,7 feet.				
CLVIII.	Aberystwith - -	66 50 30	—0,4	66 50 29,5	
	Plynlimmon -	68 46 0	—0,46	68 45 59,5	
	Tregarron Down -	44 23 31,5	—0,32	44 23 31	
		180 0 1,5			
	Tregarron Down from { Aberystwith				87594,4
	Tregarron Down from { Plynlimmon				86401,7
CLIX.	Aberystwith - -	45 36 55	—0,31	45 36 54	
	Tregarron Down -	59 51 8	—0,35	59 51 6	
	Talsarn - -	74 32 1,5	—0,46	74 32 0	
		180 0 4,5			
	Talsarn from { Aberystwith -				78591,5
	Talsarn from { Tregarron Down				64952*
CLX.	Plynlimmon - -	87 12 51	—0,75	87 12 50,25	
	Llandinam Mountain	49 3 8	—0,36	49 3 7,5	
	Tregarron Down -	43 44 2	—0,33	43 44 2,25	
		180 0 1			
	Tregarron Down from { Plynlimmon - -				86411,3
	Tregarron Down from { Llandinam Mountain				114270,5
CLXI.	Llandinam Mountain	49 37 26,5	—1,38	49 37 25	
	Tregarron Down -	96 31 45	—2,05	96 31 43	
	Capellante - -	. . .		33 50 52	
	Capellante from { Llandinam Mountain				203827,2
	Capellante from { Tregarron Down -				156290,2

The angle at Stow Hill, between Llandinam Mountain and Cradle Mountain, is 91° 58′ 6″. The distances from Stow Hill to those stations are 98832,9 feet and 152928,4 feet respectively. From these data, we get 184914,3 feet for the distance between Llandinam Mountain and Cradle Mountain, and 55° 44′ 40″ for the angle at the former station. The observed angle at Llandinam Mountain between Stow Hill and Capellante is 82° 7′ 18″: from which, subtracting 55° 44′ 40″, we get 26° 22′ 38″ for the angle between Capellante and Cradle Mountain. This angle, with the distances 184914,3 feet and 203827,2 feet, give 90585,6 feet for the distance from Cradle Mountain to Capellante.

Distance from Mynydd Mane to Llangeinor Mountain 114330,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXII.	Mynydd Mane	41 35 36,25	—0,6	41 35 35,75	
	Llangeinor Mountain	71 54 47,5	—0,81	71 54 46,75	
	Capellante	. . .		66 29 37,5	
	Capellante from	Mynydd Mane			118515,7
		Llangeinor Mountain			82765

The observed angle at Mynydd Mane, between Cradle Mountain and Capellante, is 47° 47′ 3″, and the distances from Mynydd Mane to those stations 102023,4 feet and 118515,7 feet respectively. Hence we find the distance from Capellante to Cradle Mountain 90585,8 feet: The previous determination is 90585,6 feet. The angle at Llangeinor Mountain is 31° 1′ 40″. The distances of that station from Trecasle Beacon and Capellante are 93195,7 feet and 82765 feet. This angle and those sides give 48125,8 feet for the distance between the latter stations.

ART. VII. *Calculation of the Sides of the principal Triangles proceeding from the northern Parts of Wales and Cheshire, through Lancashire and the northern Parts of Derbyshire into Yorkshire.*

Distance from Llanelian Mountain to Cyrn y Brain Mountain 145773,8 feet.

CLXIII.	Llanelian Mountain	55 42 37,75	—1,9	55 42 35,75	
	Cyrn y Brain Mountain	86 53 48	—4,48	86 53 43,5	
	Billinge Beacon	. . .		37 23 40,75	
	Billinge Beacon from	Llanelian Mountain			239683
		Cyrn y Brain Mountain			198316,3*

Cyrn y Brain Mountain from Delamere Forest 126431,6 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXIV.	Cyrn y Brain Mountain	27 41 46,75	—0,12	27 41 46,5	
	Delamere Forest -	118 4 28	—2,7	118 4 25,25	
	Billinge Beacon - -	34 13 47,75	+0,5	34 13 48,25	
		180 0 2,5			
	Billinge Beacon from { Cyrn y Brain Mountain				198315,8*
	Billinge Beacon from { Delamere Forest -				104465,1
	Delamere Forest from Garreg Mountain 137294 feet.				
CLXV.	Delamere Forest -	74 56 56	—1,26	74 56 54,75	
	Garreg Mountain -	42 28 45,5	—0,92	42 28 44,5	
	Billinge Beacon -	. . .		62 34 28,75	
	Billinge Beacon from { Delamere Forest -				104462
	Billinge Beacon from { Garreg Mountain -				149374,3
	Mean distance from Delamere Forest to Billinge Beacon 104463,5 feet.				
CLXVI.	Heswell Hill - -	61 10 55,75	—0,62	61 10 55,25	
	Billinge Beacon -	56 47 7,25	—0,69	56 47 6,5	
	Delamere Forest -	. . .		62 1 58,25	
	Heswell Hill from { Delamere Forest				99750,3*
	Heswell Hill from { Billinge Beacon				105305,7*
CXLVII.	Delamere Forest - -	56 2 30	—0,76	56 2 29,25	
	Heswell Hill - -	74 28 39,5	—0,96	74 28 38,5	
	Cyrn y Brain Mountain	. . .		49 28 52,25	
	Heswell Hill from { Delamere Forest - -				99750,8*
	Heswell Hill from { Cyrn y Brain Mountain -				108837,6

The distances from Cyrn y Brain Mountain to Heswell Hill and Garreg Mountain are 108837,6 feet and 97450 feet. The included angle at Cyrn y Brain Mountain is 24° 54′ 22″. These data give 45852,5 feet for the distance between Garreg Mountain and Heswell Hill, which distance is here found, as the same will be used in fixing the situations of several interior points.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXVIII.	Billinge Beacon -	24 5 16,25	+0,06	24 5 16,25	
	Belle-field Hill - -	126 53 18,25	—0,79	126 52 17,5	
	Delamere Forest -	29 1 26,25		29 1 26,25	
		180 0 0,75			
	Belle-field Hill from {	Delamere Forest			53307,1
		Billinge Beacon			63369,2
CLXIX	Billinge Beacon -	80 52 23,5	—0,6[illegible]	80 52 23	
	Belle-field Hill -	65 49 38,5	—0,47	65 49 38	
	Heswell Hill - -	. . .		33 17 59	
	Heswell Hill from {	Billinge Beacon -			105301,3*
		Belle-field Hill -			113961,3
CLXX.	Delamere Forest -	114 8 32	—2,09	114 8 30	
	Billinge Beacon -	34 1 8,5	—0,17	34 1 8,25	
	Mow Copt -	. . .		31 50 21,75	
	Mow Copt from {	Delamere Forest			110785,8
		Billinge Beacon			180701

The distance from Delamere Forest to Mow Copt, as formerly found, is 110780,5 feet. The last triangle being recomputed, and the mean distance from Delamere Forest to Mow Copt, viz. 110783,1 feet being taken as its base, we get 180696,4 feet for the distance between Billinge Beacon and Mow Copt.

CLXXI	Billinge Beacon -	83 9 46,75	—2,09	83 9 44,75	
	Wittle Hill - -	62 46 19	—1,4	62 46 17,5	
	Mow Copt -	. . .		34 3 57,75	
	Wittle Hill from {	Billinge Beacon			113830,4
		Mow Copt -			201769,4

Mean distance from Billinge Beacon to Heswell Hill 105303,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXII.	Billinge Beacon -	62 54 17,75	—0,25	62 54 19,75	
	Heswell Hill -	26 17 30,25	—0,25	26 17 30	
	Go Hill - -	90 48 10,75	—0,52	90 48 10,25	
		179 59 58,75			
	Go Hill from {	Billinge Beacon -			46647,8
		Heswell Hill -			93756,3
CLXXIII.	Billinge Beacon -	108 16 15,25	—0,48	108 16 14,75	
	Go Hill -	41 51 23,75	—0,17	41 51 23,5	
	Rivington Hill -	. . .		29 52 21,75	
	Rivington Hill from {	Billinge Beacon			62493,7*
		Go Hill - -			88934,6
CLXXIV.	Billinge Beacon -	107 57 2,75	—0,63	107 57 2	
	Belle-field Hill - -	35 44 1	—0,12	35 44 1	
	Rivington Hill -	. . .		36 18 57	
	Rivington Hill from {	Billinge Beacon			62489,9*
		Belle-field Hill			101791,6
CLXXV.	Billinge Beacon -	71 42 21	—0,39	71 42 20,5	
	Go Hill - -	90 14 44,75	—0,78	90 14 44	
	Bleasdale Forest -	. . .		18 2 55,5	
	Bleasdale Forest from {	Billinge Beacon			150560,2
		Go Hill - -			142951,6
CLXXVI.	Billinge Beacon -	51 25 20,25	—0,88	51 25 19,25	
	Wittle Hill - -	80 23 7,5	—1,34	80 23 6,25	
	Bleasdale Forest -	. . .		48 11 34,5	
	Wittle Hill from {	Billinge Beacon			113825,5*
		Bleasdale Forest			119379

Mean distance from Billinge Beacon to Rivington Hill 62491,8 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXVII.	Billinge Beacon -	14 51 26	+0,42	14 51 26,5	
	Wittle Hill - -	16 41 45	+0,45	6 41 45,5	
	Rivington Hill -	. . .		148 26 48	
	Wittle Hill from	Billinge Beacon -			113826,1*
		Rivington Hill -			55774,9

From the triangle Billinge Beacon, Mow Copt, and Wittle Hill, recomputed with 113827,4 feet, the mean distance from Wittle Hill to Billinge Beacon, we get 201764,2 feet for the mean distance between Wittle Hill and Mow Copt to be used as the base in the following triangle.

CLXXVIII.	Wittle Hill - -	20 22 26,75	—0,61	20 22 26,25	
	Axedge - -	103 0 32	—1,92	103 0 30	
	Mow Copt - -	. . .		56 37 3,75	
	Axedge from	Wittle Hill -			172914,2
		Mow Copt - -			72093,5
CLXXIX.	Weaver Hill - -	50 55 54	—0,39	50 55 53,75	
	Axedge - -	67 17 56	—0,45	67 17 55,5	
	Mow Copt - -	. . .		61 46 10,75	
	Weaver Hill from	Mow Copt -			85663,2*
		Axedge -			81811,8*

The distance from Weaver Hill to Mow Copt, as found in the triangle Weaver Hill, Ashley Heath, Mow Copt, is 88668,3 feet, and by the above 85663,2 feet; the mean of which is 85665,6 feet, which used in computing the triangles, Mow Copt, Weaver Hill, and Ashley Heath; and Ashley Heath, Weaver Hill, and Castle Ring gives 114144,8 feet for the distance between Weaver Hill and Castle Ring, a determination altogether depending on the recently measured base line. This mean distance differs only $\frac{7}{10}$ths of a foot from that found by the series of triangles carried on from Misterton Carr.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXX.	Wittle Hill - -	37 7 29,5	−0,46	37 7 29	
	Axedge - -	30 42 14	+0,19	30 42 14	
	Holme Moss - -	. . .		112 10 17	
			Holme Moss from {	Wittle Hill -	95339,7
				Axedge -	112695,5

The sides Orpit Heights and Hathersage, and Orpit Heights and Weaver Hill, viz. 101660,3 feet, and 71095,7 feet, with their included angle 97° 49′ 56″, give 131754,5 feet for the distance between Hathersage and Weaver Hill. The angles at Weaver Hill and Hathersage are then found to be 49° 51′ 10″, and 32° 18′ 54″ respectively.

CLXXXI.	Hathersage - -	67 29 48,5		67 29 47,5	
	Weaver Hill -	23 28 15		23 28 14,5	
	Lord's Seat - -	89 1 59		89 1 58	
		180 0 0,25			
			Lord's Seat from {	Hathersage -	52482,6
				Weaver Hill -	121740
CLXXXII.	Hathersage -	30 12 46		30 12 46	
	Lord's Seat -	117 19 51		117 19 51	
	Axedge - -	. . .		32 27 23	
			Axedge from {	Hathersage - -	86878,2
				Lord's Seat -	49212,5
CLXXXIII	Boulsworth Hill -	76 12 12,75	−0,75	76 12 12	
	Wittle Hill - -	72 3 55	−0,29	72 3 54,75	
	Bleasdale Forest -	. . .		31 43 53,25	
			Boulsworth Hill from {	Wittle Hill -	64650,8
				Bleasdale Forest	116951,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXXIV.	Boulsworth Hill -	45 51 56,5	—0,81	45 51 55,75	
	Ingleborough - -	54 11 29,75	—0,82	54 11 29	
	Bleasdale Forest -	. . .		79 56 35,25	
	Ingleborough from { Boulsworth Hill -				141995
	Ingleborough from { Bleasdale Forest -				103501,1
CLXXXV.	Wittle Hill - -	37 17 23	—0,18	37 17 22,75	
	Boulsworth Hill -	82 41 17,5	—0,29	82 41 17,25	
	Pendle Hill - -	. . .		60 1 20	
	Pendle Hill from { Wittle Hill -				74028,7
	Pendle Hill from { Boulsworth Hill				45217,6
CLXXXVI.	Boulsworth Hill -	39 22 48,25	+0,4	39 22 48,75	
	Ingleborough - -	15 0 12,5	—0,03	15 0 12,5	
	Pendle Hill - -	. . .		125 36 58,75	
	Ingleborough from { Boulsworth Hill -				141933,6
	Ingleborough from { Pendle Hill - -				110820,5
CLXXXVII.	Boulsworth Hill -	127 47 26,75	—0,77	127 47 26	
	Rumbles Moor - -	20 24 6	+0,04	20 24 6	
	Pendle Hill - -	. . .		31 48 28	
	Rumbles Moor from { Boulsworth Hill -				68367,6
	Rumbles Moor from { Pendle Hill -				102505,8
CLXXXVIII	Ingleborough - -	62 41 7,75	—0,77	62 41 7	
	Boulsworth Hill -	36 31 3	—0,68	36 31 2,25	
	Great Whernside -	. . .		80 47 50,75	
	Great Whernside from { Ingleborough -				85598
	Great Whernside from { Boulsworth Hill				127807,4

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXXIX	Boulsworth Hill -	51 53 35,75	—0,34	51 53 35,5	
	Rumbles Moor -	95 57 50,25	—0,93	95 57 49,25	
	Great Whernside -	. . .		32 8 35,25	
	Rumbles Moor from	Boulsworth Hill -			68368,2*
		Great Whernside -			101114
CXC.	Wittle Hill - -	87 16 40,75	—0,63	87 16 40	
	Boulsworth Hill -	57 44 11,75	—0,48	57 44 11	
	Holme Moss -	. . .		34 59 9	
	Holme Moss from	Wittle Hill -			95345,9
		Boulsworth Hill			112627,8
CXCI.	Boulsworth Hill -	91 47 1,25	—0,95	91 47 0,25	
	Rumbles Moor -	57 26 32	—0,44	57 26 31,5	
	Holme Moss -	. . .		30 46 28,25	
	Rumbles Moor from	Boulsworth Hill			68372,9*
		Holme Moss -			133564,6
CXCII.	Rumbles Moor -	72 16 31,75	—1,35	72 16 30,25	
	Ledstone Beacon -	58 20 17,5	—1,11	58 20 16,5	
	Holme Moss - -	. . .		49 23 13,25	
	Ledstone Beacon from	Rumbles Moor			119122,5
		Holme Moss -			149471,8
CXCIII.	Ledstone Beacon -	23 7 23,5	+0,4	23 7 24	
	Staincross Heights -	135 5 7	—0,71	135 5 6,25	
	Holme Moss - -	. . .		21 47 29,75	
	Staincross Heights from	Holme Moss -			83136,9
		Ledstone Beacon			78589,6

Clifton Beacon from Hathersage 92227,2 feet. Phil. Trans. 1803, p. 432.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxciv.	Clifton Beacon -	24 16 10	—0,18	24 16 9,75	
	Hathersage - -	64 19 9,75	—0,18	64 19 9,5	
	Bradfield Point -	. . .		91 24 40,75	
	Bradfield Point from			Clifton Beacon	83142,4
				Hathersage -	37919,4
cxcv.	Clifton Beacon -	41 38 23,5	—0,29	41 38 23,25	
	Staincross Heights -	72 8 43,5	—0,39	72 8 43	
	Bradfield Point -	. . .		66 12 53,75	
	Staincross Heights from			Clifton Beacon -	79930,4
				Bradfield Point -	58039
cxcvi.	Clifton Beacon -	65 54 33,5	—0,56	65 54 33	
	Hathersage - -	50 45 26,75	—0,49	50 45 26,25	
	Staincross Heights -	. . .		63 20 0,75	
	Staincross Heights from			Clifton Beacon	79929,2
				Hathersage -	94215,5
Clifton Beacon from Gringley Beacon 75068,1. Phil. Trans. 1803, p. 431.					
cxcvii.	Clifton Beacon -	46 29 0,25	—0,34	46 29 0	
	Crowle Beacon - -	46 54 35,5	—0,34	46 54 35	
	Gringley Beacon -	. . .		86 36 25	
	Crowle Beacon from			Clifton Beacon	102613,6
				Gringley Beacon	74543,4
cxcviii.	Clifton Beacon -	32 31 5,5	—0,39	32 31 5	
	Crowle Beacon - -	92 5 22	—0,84	92 5 21	
	Hemingbrough Spire	. . .		55 23 34	
	Hemingbrough Spire from			Clifton Beacon	124589,7
				Crowle Beacon	67019,4

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXCIX.	Crowle Beacon -	67 54 2,25	—0,45	67 54 1,75	
	Hunsley Beacon -	44 58 20,25	—0,37	44 58 20	
	Hemingbrough Spire	. . .		67 7 38,25	
	Hunsley Beacon from { Crowle Beacon -				87370
	Hunsley Beacon from { Hemingbrough Spire				87859,4
CC.	Hunsley Beacon -	68 22 50,25	—0,58	68 22 49,75	
	Wilton Beacon -	58 16 37,25	—0,51	58 16 36,75	
	Hemingbrough Spire -	. . .		53 20 33,5	
	Wilton Beacon from { Hunsley Beacon -				82862,3
	Wilton Beacon from { Hemingbrough Spire				96024,9
CCI	Wilton Beacon -	103 58 59,75	—1,92	103 58 58	
	Hambleton Down -	30 46 30,5	—0,5	30 46 30	
	Hemingbrough Spire -	. . .		45 14 32	
	Hambleton Down from { Wilton Beacon -				133262,7
	Hambleton Down from { Hemingbrough Spire				182109,2
CCII	Wilton Beacon -	126 5 51,5	—3,84	126 5 47,75	
	Botton Head - -	19 20 11,5	+0,05	19 20 11,5	
	Hemingbrough Spire	. . .		34 34 0,75	
	Botton Head from { Wilton Beacon -				164538,6
	Botton Head from { Hemingbrough Spire				234330,1
CCIII.	Hambleton Down -	107 11 36,5	—1,44	107 11 35	
	Wilton Beacon - -	22 6 51,5	—0,37	22 6 51	
	Botton Head -	50 41 34,5	—0,12	50 41 34	
		180 0 2,5			
	Botton Head from { Hambleton Down				64835,5
	Botton Head from { Wilton Beacon -				164531,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCIV.	Botton Head - -	62 15 1	+0,1	62 15 2	
	Wilton Beacon -	11 53 28,5	—0,3	11 23 29	
	Loosehoe Moor -	105 51 29,5	—0,94	105 51 29	
		179 59 59			
	Loosehoe Moor from			Botton Head	35244,2
				Wilton Beacon	151369,7
CCV.	Botton Head - -	51 0 23	—0,07	51 0 23	
	Loosehoe Moor -	102 46 14	—0,33	102 46 14	
	Easington Heights -	26 13 22,5	—0,1	26 13 23	
		179 59 59,5			
	Easington Heights from			Botton Head	77788,9
				Loosehoe Moor	61992,3
CCVI.	Botton Head - -	100 48 4,5	—0,31	100 48 4	
	Loosehoe Moor -	50 4 54	—0,07	50 4 54	
	Barnaby Moor Pole -	. . .		29 7 2	
	Barnaby Moor Pole from			Botton Head	55550,7
				Loosehoe Moor	71146,5
CCVII.	Botton Head - -	49 47 41,25	—0,22	49 47 41	
	Easington Heights -	45 20 6,75	—0,21	45 20 6,5	
	Barnaby Moor Pole -	. . .		84 52 12,5	
	Barnaby Moor Pole from			Botton Head -	55548,3
				Easington Heights	59649,7
CCVIII.	Easington Heights -	5 50 55		5 50 55	
	Burleigh Moor - -	160 23 52,5		160 23 52	
	Barnaby Moor Pole -	. . .		13 45 13	
	Burleigh Moor from			Easington Heights	42270,7
				Barnaby Moor Pole	18117,6

The distance from Easington Heights to Botton Head, and Easington Heights to Burleigh Moor, with the included angle at Easington Heights 51° 11′ 2″, give 60956,5 for the distance between Botton Head and Burleigh Moor.

Rumbles Moor from Ledstone Beacon 119122,5 feet.

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
ccix.	Rumbles Moor -	67 1 23,75	—1,57	67 1 23,25	
	Ledstone Beacon -	73 49 9,25	—1,76	73 49 8,75	
	Hambleton Down -	39 9 28,5	—1,3	39 9 28	
		180 0 1,5			
	Hambleton Down from			Ledstone Beacon	173679,7
				Rumbles Moor -	181173,7
ccx	Ledstone Beacon -	84 34 0,75	—0,74	84 34 0	
	Hambleton Down -	23 44 1,25	—0,76	23 44 0,5	
	Hemingbrough Spire -	. . .		71 41 59,5	
	Hemingbrough Spire from			Ledstone Beacon -	73626,8
				Hambleton Down	182109,8

Ledstone Beacon from Staincross Heights 78589,6 feet.

ccxi.	Ledstone Beacon -	120 9 10,75	—1,16	120 9 9,75	
	Staincross Heights -	28 50 54,75	—0,01	28 50 54,75	
	Hemingbrough Spire -	. . .		30 59 55,5	
	Hemingbrough Spire from			Ledstone Beacon	73626,7
				Staincross Heights	131947,6

Rumbles Moor from Great Whernside 101114 feet.

ccxii.	Rumbles Moor -	67 17 44	—1,26	67 17 42,75	
	Hambleton Down -	33 16 29,25	—1,05	33 16 28,25	
	Great Whernside -	. . .		79 25 49	
	Hambleton Down from			Rumbles Moor	181168,6
				Great Whernside	170013,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXIII.	Hambleton Down -	82 56 29,5	—0,26	82 56 29,25	
	Black Hambleton Down	89 14 35,75	—0,43	89 14 35,25	
	Great Whernside -	. . .		7 48 55,5	
	Black Hambleton Down from			Hambleton Down	23120,9*
				Great Whernside	148740,1
CCXIV.	Hambleton Down -	42 55 24,5		42 55 24,5	
	Black Hambleton Down	118 53 4		118 53 4	
	Botton Head -	. . .		18 11 31,5	
	Black Hambleton Down from			Hambleton Down	23117,9*
				Botton Head -	50427,7
CCXXV.	Rumbles Moor -	6 11 6,75	—0,14	6 11 6,75	
	Hambleton Down -	116 12 57,25	—1,49	116 12 55,5	
	Black Hambleton Down	57 35 59,25	+0,77	57 35 57,75	
		180 0 3,25			
	Black Hambleton Down from			Rumbles Moor -	192504,6*
				Hambleton Down	23119*
CCXVI.	Rumbles Moor -	73 12 30	—1,88	73 12 28	
	Ledstone Beacon -	70 59 12	—1,81	70 59 10,25	
	Black Hambleton Down	. . .		35 48 21,75	
	Black Hambleton Down from			Rumbles Moor -	192504*
				Ledstone Beacon	194930,8

ART. VIII. *Triangles for ascertaining the Situation of the Great Tower on York Minster.*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXVII.	Wilton Beacon -	75 45 15		75 45 15	
	Botton Head - -	24 40 15		24 40 15	
	York Minster -	. . .		79 34 30	
	York Minster from	Wilton Beacon			69830,4'
		Botton Head -			162152
CCXVIII.	Wilton Beacon -	53 38 13,5		53 38 13,5	
	Hambleton Down -	31 28 24		31 28 24	
	York Minster - -	. . .		94 53 32,5	
	York Minster from	Wilton Beacon -			69830,8*
		Hambleton Down			107705,4*
CCXIX.	Hambleton Down -	62 11 41		62 11 41	
	Rumbles Moor -	36 2 20,25		36 2 20,25	
	York Minster - -	. . .		81 45 58,75	
	York Minster from	Hambleton Down			107699,6*
		Rumbles Moor -			161921,9*
CCXX.	Rumbles Moor -	30 59 3		30 59 3	
	Ledstone Beacon -	103 17 41,75		103 17 41,75	
	York Minster - -	. . .		45 43 15,25	
	York Minster from	Rumbles Moor -			161925*
		Ledstone Beacon -			85654,8

ART. IX. *Calculation of the Sides of the principal Triangles proceeding from Lancashire and Yorkshire through Westmoreland, Cumberland, Durham, and Northumberland, and a part of the South of Scotland.*

Go Hill from Bleasdale Forest 142951,6 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXI.	Go Hill -	41 20 5	−0,61	41 20 4,5	
	Beryl Hill -	91 29 55,5	−1,26	91 29 54,25	
	Bleasdale Forest			47 10 1,25	
	Beryl Hill from	Go Hill -			104867,8
		Bleasdale Forest			94445,5
CCXXII.	Go Hill -	131 34 49,5	−1,49	131 34 48	
	Beryl Hill -	14 24 30,75	+0,06	14 24 30,75	
	Billinge Beacon			34 0 41,25	
	Beryl Hill from Billinge Beacon				140239,8

Ingleborough Hill from Bleasdale Forest 103501,1 feet.

CCXXIII.	Ingleborough Hill -	71 49 43,5	-2,01	71 49 41,5	
	Black Comb - -	30 5 35	-0,13	30 5 34,75	
	Bleasdale Forest -			78 4 43,75	
	Black Comb from	Ingleborough Hill			201970,5
		Bleasdale Forest -			196127

The sides Bleasdale Forest to Black Comb 196127 feet, and Bleasdale Forest to Beryl Hill 94445,5 feet, together with 94° 28′ 38″ the corrected angle at Beryl Hill, give 164674,5 feet for the distance between Beryl Hill and Black Comb.

No of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
ccxxiv.	Ingleborough Hill -	35 15 15,5	—1,08	35 15 14,5	
	Black Comb - -	65 15 43,5	—1,63	65 15 42	
	Helvellin Mountain -	. . .		79 29 3,5	
	Helvellin Mountain from			Ingleborough Hill	186568,6
				Black Comb -	118569,2
ccxxv.	Ingleborough Hill -	61 35 33	—0,51	61 35 32	
	Black Comb - -	22 28 19	—0,78	22 28 18	
	The Calf - -	95 56 12,25	—2,04	95 56 10	
		180 0 4,25			
	The Calf from			Ingleborough Hill	77614,6
				Black Comb -	178607,5*
ccxxvi.	Black Comb - -	42 47 24,5	—0,89	42 47 23,5	
	The Calf - -	41 19 33	—0,75	41 19 32,25	
	Helvellin Mountain -	. . .		95 53 4,25	
	The Calf from			Black Comb -	178612,2*
				Helvellin Mountain	121976
ccxxvii.	The Calf - -	63 59 16	—1,01	63 59 15	
	Cross Fell -	57 48 24,5	—1,02	57 48 23,5	
	Helvellin Mountain -	. . .		58 12 21,5	
	Cross Fell from			The Calf - -	122505,3
				Helvellin Mountain	129531,8
ccxxviii.	Cross Fell - -	26 35 21,5	—0,44	26 35 21	
	The Calf - -	86 13 39,25	—0,76	86 13 38,5	
	Shunnor Fell - -	. . .		67 11 0,5	
	Shunnor Fell from			Cross Fell -	132616,9
				The Calf -	59486,9*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
ccxxix	Ingleborough Hill -	43 31 19	—0,31	43 31 18,75	
	The Calf - -	72 31 16	—0,4	72 31 15,5	
	Shunnor Fell -	. . .		63 57 25,75	
	Shunnor Fell from { Ingleborough Hill				82397
	Shunnor Fell from { The Calf - -				59487,9*
	Black Hambleton from Great Whernside 168740,1. feet.				
ccxxx.	Black Hambleton.	32 56 51,75	—1,07	32 56 50,75	
	Water Crag - -	62 22 46,5	—1,17	62 22 45,25	
	Great Whernside -	. . .		84 40 24	
	Water Crag from { Black Hambleton -				189621
	Water Crag from { Great Whernside -				103576,6
ccxxxi	Black Hambleton -	122 11 27,75	—1,95	122 11 26	
	Hambleton Down -	52 16 32	+1,47	52 16 33,5	
	Water Crag - -	. . .		5 32 0,5	
	Hambleton Down from Water Crag -				202882,7
ccxxxii.	Black Hambleton -	46 13 27,25	—1,68	46 13 25	
	Water Crag - -	66 3 11,5	—1,72	66 3 9,5	
	Brandon Down -	67 43 27,5	—1,75	67 43 25,5	
		180 0 6,25			
	Brandon Down from { Black Hambleton				187275,6
	Brandon Down from { Water Crag -				147957,9
ccxxxiii	Brandon Down -	57 0 24,25	—0,31	57 0 25	
	Water Crag - -	25 0 11,75	—0,38	25 0 12	
	Collier Law -	97 59 21	—1,12	97 59 23	
		179 59 57			
	Collier Law from { Brandon Down -				63150,5
	Collier Law from { Water Crag				125314,1

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
ccxxxiv.	Water Crag - -	91 3 23,25	—2,81	91 3 21	
	Black Hambleton -	33 8 18,75	—1,29	33 8 17,5	
	Collier Law - -	55 48 22,5	—1,37	55 48 21,5	
		180 0 4,5			
		Black Hambleton from Collier Law			229210,8
ccxxxv.	Water Crag - -	52 19 53,5	—0,7	52 19 52,5	
	Collier Law - -	64 2 0	—0,99	64 1 59	
	Cross Fell - -	63 38 9,5	—1	63 38 8,5	
		180 0 3			
		Cross Fell from { Water Crag -			125741,2
		Cross Fell from { Collier Law -			110708,2
ccxxxvi.	Water Crag - -	93 12 26,75	—0,47	93 12 26,25	
	Cross Fell - -	15 35 36	—0,26	15 35 35,75	
	Shunnor Fell - -	. . .		71 11 58	
		Shunnor Fell from { Water Crag			35705,3
		Shunnor Fell from { Cross Fell -			132620,7*

The distance from Shunnor Fell to Great Whernside is found, by means of the included angle at Ingleborough Hill, viz. 66° 10′ 48″, and the distances already given from that station to each of them, to be 91757,1 feet, and the same distance found by means of the included angle at Water Crag, viz. 61° 1′ 28″, and their respective distances from that station is 91759,8 feet.

ccxxxvii.	Cross Fell - -	99 59 22	—1,94	99 59 20	
	Water Crag - -	40 43 16	—0,74	40 43 15,25	
	Helvellin Mountain	. . .		39 17 24,75	
		Helvellin Mountain from Water Crag			195556,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXXVIII	Black Comb - -	58 57 16,5	—0,48	58 57 16	
	The Calf - -	23 49 59,75	—0,63	23 49 59	
	Sca-Fell, Lower Top	. . .		97 12 45	
	Sca-Fell, Lower Top, from	Black Comb			72747,1
		The Calf -			154245,8
CCXXXIX.	Black Comb - -	38 18 57	—0,26	38 18 56,75	
	Dent Hill - -	49 14 1,5	—0,3	49 14 1,25	
	Sca-Fell, Lower Top	. . .		92 27 2	
	Dent Hill from	Black Comb - -			95963,3
		Sca-Fell, Lower Top			59551,2
CCXL.	Cross Fell - -	49 49 57,75	—0,87	49 49 57	
	Crif-Fell -	29 52 19	—1,25	29 52 17,75	
	Helvellin Mountain	. . .		100 17 45,25	
	Crif-Fell from	Cross Fell - -			255886,1
		Helvellin Mountain			198738,6
CCXLI.	Cross Fell - -	87 59 10,5	—0,59	87 59 10	
	The Calf - -	45 37 1	—0,68	45 37 0,25	
	High Pike - -	. . .		46 23 49,75	
	High Pike from	Cross Fell -			120904,7
		The Calf -			169069,5
CCXLII.	Cross Fell - -	30 10 43	—0,3	30 10 42,75	
	High Pike - -	82 11 30	—0,79	82 11 29,25	
	Helvellin Mountain -	. . .		67 37 48	
	High Pike from	Cross Fell -			120905,1
		Helvellin Mountain			65724,6

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXLIII.	Cross Fell - -	64 8 15,5	—1,34	64 8 14,25	
	High Pike - -	85 1 55,5	—2,56	85 1 53	
	Wisp Hill - -	. . .		30 49 52,75	
		Wisp Hill from { Cross Fell -			235019,8
		Wisp Hill from { High Pike -			212278,4
CCXLIV	Cross Fell - -	44 29 1	—2,87	44 28 58	
	Crif-Fell - -	61 49 36	—3,25	61 49 32,75	
	Wisp Hill - -	73 41 30	—3,7	73 41 29,25	
		180 0 7			
		Wisp Hill from { Cross Fell -			235024,3
		Wisp Hill from { Crif-Fell - -			186814,9
CCXLV.	Crif Fell - -	77 48 9,75	—4,51	77 48 5,25	
	High Pike - -	59 20 15	+2,52	59 20 12,5	
	Wisp Hill - -	. . .		42 51 42,25	
		High Pike from { Crif-Fell -			147733,5
		High Pike from { Wisp Hill - -			212277,5
CCXLVI.	Crif-Fell - -	26 36 11,25	+0,34	26 36 11,5	
	Cross Fell - -	27 42 23,5	+0,38	27 42 24	
	Skiddaw - -	. . .		125 41 24,5	
		Skiddaw from { Crif-Fell - -			146485,3*
		Skiddaw from { Cross Fell -			141086,3
CCXLVII.	Crif-Fell - -	10 37 35	—0,11	10 37 35	
	High Pike - -	82 4 53,75	—0,19	82 4 53,5	
	Skiddaw - -	. . .		87 17 31,5	
		Skiddaw from { Crif-Fell - -			146488,5*
		Skiddaw from { High Pike -			27273,1

Mean distance from Crif-Fell to Skiddaw 146486,9 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXLVIII.	Crif-Fell - -	33 24 18,5	—0,75	33 24 17,75	
	Dent Hill - -	63 34 19,25	—0,86	63 34 18,5	
	Skiddaw - -	. . .		83 1 23,75	
	Dent Hill from	Crif-Fell - -			162371,1
		Skiddaw -			90060,7
CCXLIX.	Crif-Fell - -	38 11 48	—0,83	38 11 47,25	
	Scilly Bank - -	74 48 14,5	—0,82	74 48 13,75	
	Skiddaw - -	. . .		66 59 59	
	Scilly Bank from	Crif-Fell -			139727,3
		Skiddaw -			93863,6
CCL.	Dent Hill - -	90 20 26		90 20 26	
	Scilly Bank -	73 38 6		73 38 6	
	Skiddaw - -	. . .		16 1 28	
	Scilly Bank from	Dent Hill - -			25910,8
		Skiddaw -			93861,6

The sides Dent Hill from Black Comb 95963,3 feet, and Dent Hill from Skiddaw 90060,7 feet, with 106° 12′ 0″ their included angle at Dent Hill, give 148802,7 feet for the distance between Black Comb and Skiddaw, on which the following triangle for finding the distance between Black Comb and Scilly Bank depends.

CCLI.	Black Comb - -			39 1 48	
	Skiddaw - -			54 17 23	
	Scilly Bank - -			86 40 49	
	Black Comb from Scilly Bank				121027,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	feet.
CCLII.	Black Comb - -	65 58 6	−1,2	65 58 4,75	
	Dent Hill - -	89 8 10	−2,28	89 8 7,75	
	North Berule (Isle of Man) - -	. . .		24 53 47,5	
	North Berule from			Black Comb	227925,6
				Dent Hill -	208192,2
CCLIII.	Black Comb - -	62 28 25	−1,55	62 28 23,5	
	Scilly Bank - -	85 33 51	−2,62	85 33 48,25	
	North Berule -	. . .		31 57 48,25	
	North Berule from			Black Comb	227937,6
				Scilly Bank -	202741,4
*CCLIV.	Black Comb - -	64 57 14	−1,67	64 57 12,25	
	Scilly Bank - -	85 10 38	−2,79	85 10 35,25	
	Snea Fell - -	. . .		29 52 12,5	
	Snea Fell from			Black Comb -	242149,4
				Scilly Bank - -	220157,1
CCLV.	Collier Law - -	95 1 11,25	−4,61	95 1 6,5	
	Cross Fell - -	62 47 32,5	−0,61	62 47 32	
	The Cheviot - -	. . .		22 11 21,5	
	The Cheviot from			Collier Law	260702,2
				Cross Fell -	292012,7

* When the party were on Crif-Fell, Snea Fell in the Isle of Man was once observed, but the object was not, at that time, sufficiently distinct to admit of a very accurate observation, and no opportunity offered afterwards of verifying the one then made. By this observation, the angle between Helvellin Mountain and Snea Fell is 76° 37′ 34″, which, with the data already given, makes the distance from Crif-Fell to Snea Fell 303380,3 feet, and from Black Comb to Snea Fell 242144,7 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLVI.	Cross Fell - -	39 15 48,75	—2,64	39 15 46	
	Wisp Hill -	87 14 9	—4,84	87 14 4	
	The Cheviot - -	. . .		53 30 10	
	Wisp Hill from {	Cross Fell -			235018,6
		The Cheviot -			185023,9
CCLVII.	Wisp Hill - -	41 42 33,75	—2,03	41 42 31,75	
	Crif-Fell Hill - -	44 6 39,75	—0,87	44 6 39	
	Queensberry Hill - -	. . .		94 10 49,25	
	Queensberry Hill from {	Wisp Hill -			130379
		Crif-Fell Hill			124628
CCLVIII.	Wisp Hill - -	50 36 16	—2,08	50 36 14	
	Sayrs Law - -	55 50 18,25	—2,21	55 50 16	
	The Cheviot -	. . .		73 33 30	
	Sayrs Law from {	Wisp Hill -			214463,4
		The Cheviot -			172798,4
CCLIX.	Wisp Hill - -	39 42 52,5	—0,41	39 42 52	
	Sayrs Law - -	30 1 39,5	—0,48	30 1 39	
	The Dunrigs -	. . .		110 15 29	
	The Dunrigs from {	Wisp Hill -			114397,1
		Sayrs Law -			146069,4
CCLX.	Black Hambleton -	72 42 6	—0,27	72 42 5,75	
	Brandon Down -	15 36 50	—0,54	15 36 49,5	
	Botton Head - -	. . .		91 41 4,75	
	Botton Head from {	Black Hambleton			50427,2
		Brandon Down -			178882,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXI.	Brandon Down -	77 58 43,75	—0,96	77 58 42,75	
	Wordeslow Hill -	81 28 33,75	— ,01	81 28 32,75	
	Botton Head - -	. . .		20 32 44,5	
	Wordeslow Hill from			Brandon Down -	63480,7*
				Botton Head -	176913,7
CCLXII.	Botton Head - -	65 37 33	—0,74	65 37 32,25	
	Easington Heights -	88 18 12,25	—1,58	88 18 10,5	
	Wordeslow Hill - -	. . .		26 4 17,25	
	Easington Heights from			Botton Head -	77786,5
				Wordeslow Hill	161215,8
CCLXIII.	Easington Heights -	37 7 17	+0,84	37 7 17,75	
	Burleigh Moor -	131 33 56	—0,46	131 33 55,5	
	Wordeslow Hill -	. . .		11 18 46,75	
	Burleigh Moor from			Easington Heights	42268,7
				Wordeslow Hill -	130039,1
CCLXIV.	Wordeslow Hill -	96 14 3	—1,5	96 14 1,5	
	Burleigh Moor - -	24 44 28	—0,45	24 44 27,5	
	Brandon Down -	59 1 31,5	—0,37	59 1 31	
		180 0 2,5			
	Brandon Down from			Wordeslow Hill - -	63475,5*
				Burleigh Moor -	150771
	Mean distance from Wordeslow Hill to Brandon Down 63478,1 feet.				
CCLXV.	Wordeslow Hill -	38 50 58	—0,2	38 50 57,75	
	Brandon Down -	81 21 42,75	—0,13	81 21 42,75	
	Pontop Pike - -	59 47 19,75	—0,16	59 47 19,5	
		180 0 0,5			
	Pontop Pike from			Wordeslow Hill -	72621,9
				Brandon Down -	46076,5*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXVI.	Collier Law - -	44 47 10	—0,14	44 47 11	
	Brandon Down -	60 18 51	—0,18	60 18 52	
	Pontop Pike -	74 53 55,5	—0,23	74 53 57	
		179 59 56,5			
	Pontop Pike from			Collier Law -	56824,6
				Brandon Down	46078,5*
CCLXVII.	Wordeslow Hill -	19 6 42,25	+0,42	19 6 40	
	Brandon Down -	141 40 31,5	—1,35	141 40 30	
	Collier Law -	19 12 51	+0,43	19 12 50	
		180 0 4,75			
	Collier Law from Wordeslow Hill				119613
CCLXVIII	Wordeslow Hill - -	68 16 54	—1,72	68 16 52,75	
	Collier Law - -	75 12 28	—1,97	75 12 26	
	Simonside Hill - -	. . .		36 30 41,25	
	Simonside Hill from			Wordeslow Hill	194372,3
				Collier Law -	186764,7*
CCLXIX.	Cross Fell - -	49 36 25,5	—0,68	49 36 25	
	Collier Law - -	103 33 22,75	—2,93	103 33 20	
	Simonside Hill -	. . .		26 50 15	
	Simonside Hill from			Cross Fell -	238390,7
				Collier Law -	186765*
	Mean distance from Collier Law to Simonside Hill 186764.8 feet.				
CCLXX.	Collier Law - -	14 28 51	—0,32	14 28 50,75	
	Rufflaw - - -	103 32 30	—1,4	103 32 28,5	
	Simonside Hill -	. . .		61 58 40,75	
	Rufflaw from			Collier Law -	169584*
				Simonside Hill -	48036,8

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXI.	Collier Law - -	23 1 6	+0,1	23 1 6	
	Rufflaw - -	124 36 49,75	−7,08	124 36 42,75	
	The Cheviot - -	. . .		32 22 11,25	
		Rufflaw from		Collier Law -	169589*
				The Cheviot -	123862,8
CCLXXII.	Collier Law -	35 9 21	+0,69	35 9 21,75	
	Rufflaw - - -	14 52 51,5	+0,17	14 52 51,75	
	Pontop Pike -	. . .		129 57 46,5	
		Pontop Pike from Rufflaw -			127402,4

By using 60° 43′ 36″, the included angle at Collier Law and the distances from that station to Rufflaw and Wordeslow Hill, the distances between those stations is found to be 152413 feet.

CCLXXIII.	Rufflaw - -	60 0 5,5	−1,22	60 0 5,25	
	Alnwick Moor - -	40 34 54	−0,18	40 34 53,75	
	Simonside Hill -	. . .		79 25 1	
		Alnwick Moor from		Rufflaw -	72588,1*
				Simonside Hill	63950,4
CCLXXIV.	Rufflaw - -	38 55 42	+0,36	38 55 42,25	
	Alnwick Moor - -	106 58 56	−0,55	106 58 55,5	
	The Cheviot - -	. . .		34 5 22,25	
		Alnwick Moor from		Rufflaw -	72588,7*
				The Cheviot	81377,4

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXV.	Sayrs Law - -	44 34 27,25	—0,89	44 34 26,25	
	Mordington Hill -	89 34 2,75	—1,75	89 34 1	
	The Cheviot - -	. . .		45 51 32,75	
	Mordington Hill from	Sayrs Law -			124008,6
		The Cheviot -			121278,4
CCLXXVI.	Mordington Hill -	32 43 0,25	—0,24	32 43 0	
	Blackheddon - -	117 9 58,25	—1,01	117 9 57,25	
	The Cheviot - -	. . .		30 7 2,75	
	Blackheddon from	Mordington Hill			68399,7*
		The Cheviot -			73676,6
CCLXXVII.	Mordington Hill -	122 17 3	—1,91	122 17 1	
	Blackheddon -	37 54 29,25	—0,42	37 54 28,75	
	Sayrs Law - -	. . .		19 48 30,25	
	Blackheddon from	Mordington Hill			68398,3*
		Sayrs Law -			170637,4
CCLXXVIII.	Blackheddon - -	33 9 8,25	—0,37	33 9 8	
	Lumsdane Hill -	107 25 29,5	—1,79	107 25 27,75	
	Sayrs Law - -	. . .		39 25 24,25	
	Lumsdane Hill from	Blackheddon -			113574,1*
		Sayrs Law -			97803,5
CCLXXIX.	Blackheddon - -	112 24 37,25	—1,2	112 24 36	
	Lumsdane Hill -	25 40 44	—0,11	25 40 44	
	The Cheviot - -	. . .		41 54 40	
	Lumsdane Hill from	Blackheddon -			113573
		The Cheviot -			157184,9

The distance from Lumsdane Hill to Mordington Hill is discovered to be 45764,1 feet, by using 19° 36′ 54″ the included angle at Sayrs Law with their respective distances from that station.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXX	Sayrs Law - -	96 56 7	−1,98	96 56 5	
	Lumsdane Hill - -	52 11 55,5	−0,66	52 11 55	
	Largo Law - -	. . .		30 52 0	
	Largo Law from	Sayrs Law -			150628,1
		Lumsdane Hill			189240,1
CCLXXXI.	Sayrs Law - -	114 29 4,5	−3,2	114 29 1,25	
	Lumsdane Hill - -	43 48 42	+0,15	43 48 42,25	
	East Lomond Top -	. . .		21 42 16,5	
	East Lomond Top from	Sayrs Law -			183084
		Lumsdane Hill			240679

The sides Alnwick Moor to The Cheviot 81377,4 feet, and Alnwick Moor to Simonside Hill 63950,4 feet, together with 66° 24′ 2″ the included angle at Alnwick Moor gives 80901,8 feet for the distance from The Cheviot to Simonside Hill, and 46° 24′ 56″ for the angle at The Cheviot. The angle at Blackheddon between The Cheviot and Simonside Hill is 34° 20′ 53″, and the distance from that station to The Cheviot is 73676,6 feet, these, with the distance just found, give 130234,2 feet for the distance between Blackheddon and Simonside Hill, and 114° 43′ 58″ for the angle at The Cheviot between those points; whence 68° 19′ 2″ is found to be the angle at The Cheviot between Alnwick Moor and Blackheddon, which with 81377,4 and 73676,6 feet their respective distances from The Cheviot, give 87293,3 feet for their distance from each other.

SECTION THIRD.

ART. I. *Secondary Triangles formed by the intersection of Church Steeples, Light-Houses, Signal Staves, and other remarkable Objects, from the principal Stations.*

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Royston from Orwell 43642,8 feet.		
	° ′ ″	
Royston -	16 56 27	155355
Orwell - -	156 40 20	114316
Ely Minster -	. . .	
Royston - -	21 3 35	74857
Orwell - -	134 15 40	37560
Great St. Mary's, Cambr.	. . .	
Royston -	10 56 3	70300
Orwell - -	152 17 1	28671
Coton Spire - -	. . .	
Royston - -	3 46 48	49738
Orwell - -	151 17 22	6826
Great Eversden Steeple	. . .	
Royston - -	31 47 47	23674
Orwell - -	27 56 22	26624
Melbourne Steeple -	. . .	
Royston - -	39 15 0	71394
Orwell - -	104 27 19	46648
Lord Osborne's House	. . .	
Royston - -	78 16 40	32930
Orwell - -	41 6 24	49042
Headon Steeple -	. . .	
Royston - -	85 25 41	29508
Orwell -	35 27 54	50696
Chisball Steeple - -	. . .	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Royston - -	3 56 35	37860
Orwell - -	23 54 36	6423
Orwell Steeple -	. . .	
Royston - -	98 40 27	23644
Orwell - -	26 20 27	52678
Ashwell Spire -	. . .	
Royston - -	56 13 18	94156
Orwell - -	96 20 52	78745
Balsham Steeple -	. . .	
Royston - -	20 15 37	28393
Orwell - -	30 1 59	19644
Meldreth Steeple -	. . .	
Royston -	16 59 59	15230
Orwell - -	8 42 21	29417
Bassingbourn Steeple	. . .	
Royston - -	10 21 4	42358
Orwell - -	75 27 31	7863
Whimple Ruins -	. . .	
Royston - -	12 56 3	38322
Orwell - -	93 44 6	10638
Lord Hardwick's Pleasure House - -	. . .	
Royston - -	34 5 36	116152
Orwell - -	128 54 19	83666
Mr. Humphrey's Windmill	. . .	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Royston - -	33 58 28	114694
Orwell - -	128 46 0	82202
Swaffham Steeple -	. . .	
Royston - -	110 49 0	20164
Orwell - -	20 21 9	54192
Peacby's Obelisk -	. . .	
Royston - -	110 24 4	20757
Orwell - -	20 55 33	54471
Cupola with Vane and Pinnacle - -	. . .	
Orwell from Maddingly 29796,8 feet.		
Orwell - -	21 36 30	37568
Maddingly - -	110 20 55	14756
Great St. Mary's Steeple, Cambridge -	. . .	
Orwell - -	33 0 55	28152
Maddingly -	68 1 10	16541
Granchester Steeple -	. . .	
Orwell - -	20 27 29	37526
Maddingly - -	112 14 12	141,0
Trinity College, Cambridge	. . .	
Orwell - -	21 44 30	38090
Maddingly - -	111 35 28	15174
Trinity Spire, Cambridge	. . .	
Orwell - -	38 23 25	30162
Maddingly - -	72 37 13	19822
Trumpington Steeple -	. . .	
Orwell - -	3 35 7	28660
Maddingly - -	56 20 8	2152
Coton Spire - -	. . .	
Orwell - -	83 7 16	24794
Maddingly -	42 32 2[illegible]	36[illegible]9
Barkway Mill - -	. . .	
Orwell from Balsham 71225 feet.		
Orwell - -	10[illegible] 4[illegible] 52	[illegible] 874
Balsham - -	2[illegible] 57 [illegible]	[illegible] 3 4
Thaxfield Mill -	. . .	
Orwell - -	5 30 [illegible]	7[illegible]731
Balsham - -	118 4[illegible] [illegible]	[illegible]613
Balsham Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Orwell - -	128 11 48	52727
Balsham - -	21 12 2	114584
Ashwell Spire -	. . .	
Royston from Balsham 93515,3 feet.		
Royston - -	116 10 [illegible]	35800
Balsham - -	10 22 53	113928
Hush Spire -	. . .	
Maddingly from Balsham 61627,8 feet.		
Maddingly - -	46 49 28	32[illegible]17
Balsham - -	39 41 28	4[illegible]031
Maggots Mount -	. . .	
Maddingly -	82 57 37	35153
Balsham - -	31 33 36	67[illegible]
Cottenham Spire	. . .	
Balsham from Newmarket 47954,2 feet.		
Balsham - -	61 29 32	86118
Newmarket - -	82 2 21	70479
Haddenham Spire -	. . .	
Balsham - -	64 20 43	98708
Newmarket - -	86 38 35	89130
Sutton Steeple -	. . .	
Balsham - -	59 47 36	27403
Newmarket - -	54 43 36	41572
Bottisham Steeple -	. . .	
Balsham - -	67 34 57	2[illegible],66
Newmarket -	29 43 3	41693
Great Wilbraham Steeple	. . .	
Newmarket from Brandon Hill 73037,7 feet.		
Newmarket - -	89 9 16	62766
Brandon Hill -	40 40 54	96278
Stretham Spire -	. . .	
Newmarket -	9 45 29	39733
Brandon Hill -	10 57 31	35425
Middenhall Steeple -	. . .	
Newmarket -	108 41 56	25702
Brandon Hill -	16 30 8	85708
Burwell Spire -	. . .	

Names of Stations and intersected Objects	Observed Angles.	Distances in Feet
Bow Brickhill from Kensworth 57668 feet.		
Bow Brickhill -	60 32 27	139016
Kensworth -	95 3 7	121514
Tuerfield Steeple -	. . .	
Bow Brickhill -	59 23 51	136957
Kensworth - -	95 50 18	118495
Kelshall Steeple -	. . .	
Bow Brickhill - -	57 5 5	134708
Kensworth -	97 49 14	114145
Sandon Steeple -	. . .	
Horseroor Hill from Brogborough 17059 feet		
Horseroor Hill -	8 36 29	10270
Brogborough -	11 17 4	7855
Gold[illegible]n Steeple -	. . .	
Horseroor Hill -	9 7 38	12562
Brogborough -	20 3 57	7858
Marston Moretyne Steeple	. . .	
Hill Farm from Brogborough 26 27 feet		
Hill Farm - -	149 33 15	19568
Brogborough -	12 55 45	41996
Woburn Abbey -	. . .	
Hill Farm from Bow Brickhill 16178 feet		
Hill Farm -	130 28 38	8088
Bow Brickhill -	16 1 12	22294
Milton Bryant Steeple	. . .	
Trusler Hill from Lilleyhoe 50673,6 feet.		
Trusler Hill -	34 26 27	21007
Lilleyhoe - -	19 36 29	35402
Tuddington Steeple -	. . .	
Trusler Hill from Brogborough 14702,7 feet.		
Brogborough -	36 5 31	28117
Trusler Hill -	115 49 48	18402
Shire Ash Tree -	. . .	
Brogborough -	54 48 35	10117
Trusler Hill -	14 22 17	12172
Aspley Steeple -	. . .	

Names of Stations and intersected Objects	Observed Angles.	Distances in Feet.
Brogborough -	49 35 57	14079
Trusler Hill -	66 11 23	12[illegible]5
Aspley Wood Oak -	. . .	
Brogborough	25 5 14	15337
Trusler Hill -	82 19 12	6554
Spruce Fir -	. . .	
Brogborough -	101 51 23	16369
Trusler Hill -	41 50 44	24300
Wulen Steeple -	. .	
Trusler Hill -	103 25 45	9979
Brogborough -	27 17 37	161
Cross Hut - -		
Trusler Hill - -	90 51 11	11[illegible]46
Brogborough -	34 3 55	19138
Landon Hill -	. .	
Trusler Hill -	96 9 3	13631
Brogborough -	39 59 5	21095
Job's Hill - -	. .	
Trusler Hill from Bow Brickhill 20133,7 feet.		
Trusler Hill -	19 34 53	21370
Bow Brickhill -	93 42 [illegible]	5404
Little Brickhill -	. .	
Trusler Hill - -	13 [illegible] 14	19132
Bow Brickhill -	73 25 39	4716
Little Brickhill Pest House	. . .	
Arbury Hill from Helkinton 67529,4 feet.		
Arbury Hill -	27 40 [illegible]	37903
Helkinton - -	93 59 15	39993
Lutterworth Steeple	. . .	
Arbury Hill -	14 32 27	17827
Helkinton - -	5 [illegible] 16	50472
Dunchry Spire -	. . .	
Arbury Hill -	6 17 1	52053
Helkinton - -	19 50 25	10706
West Haddon Steeple	. . .	
Arbury Hill - -	4 13 33	53531
Helkinton - -	15 [illegible] 33	14683
West Haddon Weather	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Arbury Hill -	16 1 19	63819
Helkinton - -	70 38 24	18670
Guttesborough Spire -	. . .	
Arbury Hill -	51 42 50	44561
Helkinton - -	41 13 29	53075
Dunchurch Steeple	. . .	
Arbury Hill - -	26 50 36	85985
Helkinton - -	103 19 0	39899
Misterton Steeple -	. . .	
Arbury Hill -	29 47 6	181893
Helkinton - -	131 59 37	127767
Mount Sorrel Windmill	. . .	
Arbury Hill - -	9 12 44	80765
Helkinton - -	131 54 20	17223
Naseby Steeple -	. . .	
Arbury Hill from Burrow Hill 19028,4 feet.		
Burrow Hill -	33 12 5	29610
Arbury Hill -	109 31 7	17202
Sir Geo. Shuckburgh's Observatory -	. . .	
Burrow Hill - -	73 10 36	21302
Arbury Hill -	57 45 20	24109
Branston Spire -	. . .	
Burrow Hill -	8 38 50	5513
Arbury Hill -	3 29 37	13634
Newnham Windmill -	. . .	
Burrow Hill -	32 32 51	29719
Arbury Hill -	110 38 32	17085
Shuckburg Steeple -	. . .	
Burrow Hill -	150 16 27	56311
Arbury Hill - -	22 20 41	73444
Cold Ashby Steeple -	. . .	
Helkinton from Naseby 20182 feet.		
Helkinton - -	64 7 26	24618
Naseby - -	60 55 16	24077
Husband Bosworth Steeple	. .	
Helkinton - -	103 0 43	19681
Naseby - -	37 55 19	31202
South Kilworth Steeple	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Helkinton -	88 17 31	21845
Naseby - -	48 11 16	29295
North Kilworth Spire	. . .	
Helkinton -	32 37 40	24016
Naseby - -	90 11 34	12948
Sibertoft Steeple -	. . .	
Helkinton -	63 39 5	11352
Naseby - -	33 53 24	18243
Welford Steeple -	. . .	
Helkinton from Tilton 104228,1 feet.		
Helkinton -	50 5 16	132396
Tilton - -	79 14 58	103365
Bardon Gazebo -	. . .	
Cropwell Bishop to Stathern 39451 feet		
Cropwell Bishop -	119 58 47	97620
Stathern - -	44 2 14	122054
Bardon Gazebo -	. . .	
Tilton from Stathern 84107,6 feet.		
Tilton - -	6 31 51	63918
Stathern - -	19 26 4	21849
Waltham Spire -	. . .	
Tilton - -	99 46 56	79143
Stathern - -	5 14 1	85813
Tilton Spire -	. . .	
Tilton - -	41 16 24	19787
Stathern - -	10 40 35	70456
Cold Overton Steeple	. . .	
Bardon Hill from Stathern 122298,7 feet.		
Bardon Hill - -	36 49 30	94899
Stathern - -	50 50 3	73363
Nottingham Steeple -	. . .	
Bardon Hill -	88 52 51	37761
Stathern -	17 15 13	127288
Breedon on the Hill Steeple	. . .	
Stathern from Holland Hill 83722,1 feet.		
Stathern - - -	64 0 19	26178
Holland Hill - -	18 2 21	75983
Botteyford Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in feet.
	° ′ ″	
Stathern - -	64 24 35	13935
Holland Hill -	9 11 15	78713
Redmile Spire -	. . .	
Stathern - -	5 22 9	37747
Holland Hill -	4 22 39	46276
Bingham Spire -	. . .	
Stathern - -	25 31 53	16331
Holland Hill -	5 49 33	69344
Langar Steeple -	. . .	
Stathern - -	147 44 26	21843
Holland Hill - -	6 30 30	102856
Waltham Spire -	. . .	
Stathern - -	16 36 44	9878
Holland Hill -	2 10 41	74310
Plungar Steeple -	. . .	
Stathern - -	12 11 29	19125
Holland Hill - -	3 33 14	65[illegible]4
Granby Steeple -	. . .	
Stathern - -	89 18 48	75538
Holland Hill -	12 8 31	112580
Caythorpe Spire -	. . .	
Stathern - -	80 56 26	114129
Holland Hill -	59 44 27	130482
Celeby Spire	. . .	
Stathern - -	86 58 48	85874
Holland Hill - -	47 16 35	116731
Leadenham Spire -	. . .	
Stathern - -	79 8 26	118360
Holland Hill - -	62 8 51	131471
Harmstone Steeple -	. . .	
Stathern - -	56 54 15	72726
Holland Hill -	48 25 28	64942
Newark Spire -	. . .	
Stathern from Bottesford 28352,8 feet.		
Stathern - -	131 17 42	4298
Bottesford - -	5 54 41	31356
Stathern Steeple -	. . .	
Stathern -	18 14 52	111617
Bottesford - -	155 46 4	85154
Boothby Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in feet.
	° ′ ″	
Stathern - -	20 1 9	104670
Bottesford - -	152 53 25	78631
Wellingore Steeple -	. . .	
Stathern - -	7 5 46	45040
Bottesford -	161 11 51	17263
Long Bennington Steeple	. . .	
Stathern - -	5 0 42	25949
Bottesford - -	169 30 40	54075
Doddington Spire -	. . .	
Stathern - -	8 44 55	27538
Bottesford - -	74 49 54	4340
Foston Spire -	. . .	
Stathern - -	135 22 38	37105
Bottesford - -	25 32 41	60932
Over Broughton Steeple	. . .	
Stathern - -	138 40 9	33886
Bottesford -	22 35 9	58267
Nether Broughton Steeple	. . .	
South End of proposed Base from Cropwell Bishop 28541 feet.		
South End of Base -	167 48 4	21538
Cropwell Bishop -	5 14 36	49801
Belvoir Castle -	. . .	
Bardon Hill from Tilton 103683,2 feet.		
Bardon Hill - -	54 14 42	33789
Tilton - -	18 5 27	88303
Loughborough Steeple	. . .	
Bardon Hill -	58 19 22	19104
Loughborough -	34 23 10	28787
Belton Spire -	. . .	
Bardon Hill -	1 21 21	36015
Loughborough -	158 58 8	2375
Stanford Hall -	. . .	
Cropwell Bishop from Bottesford 49999,4 feet.		
Cropwell Bishop -	17 32 7	35857
Bottesford -	34 21 5	19146
Barkston Spire -	. . .	
Cropwell Bishop -	1 24 25	47957
Bottesford - -	29 48 38	2369
Bottesford Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Cropwell Bishop -	14 9 25	30344
Bottesford -	19 50 4	21873
Whatton Spire -	. . .	
Cropwell Bishop -	15 14 13	42306
Bottesford ..	50 27 37	14417
Redmile Spire -	. . .	
Cropwell Bishop -	36 14 4	76855
Bottesford -	104 47 22	46985
Newark Spire -	. . .	
Cropwell Bishop -	22 50 22	49783
Bottesford -	77 58 11	19757
Belvoir Castle -	. . .	
Cropwell Bishop -	38 41 5	32829
Bottesford -	40 5 41	31860
Kilvington Steeple -	. . .	
Cropwell Bishop from Holland Hill 52077,2 feet.		
Cropwell Bishop -	108 29 14	93328
Holland Hill -	47 15 35	120240
Gateway near Grantham	. . .	
Cropwell Bishop from Stathern 39452,5 feet.		
Cropwell Bishop -	16 56 8	35855
Stathern - -	63 14 16	11647
Barkstone Spire -	. .. .	
Holland Hill from Sutton Ashfield 38375,2 feet.		
Holland Hill -	36 53 11	83748
Sutton Ashfield -	119 38 42	57838
Kritch Spire -	. . .	
Holland Hill -	35 29 38	85074
Sutton Ashfield -	122 1 14	58259
Hurl's Gazebo -	. . .	
Sutton Ashfield from Orpit Heights 73826,6 feet.		
Sutton Ashfield -	37 42 33	11113
Orpit Heights -	6 10 2	65150
Sutton Spire -	. . .	
Sutton Ashfield -	14 23 18	11906
Orpit Heights -	2 43 9	62364
Kirby Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Weaver Hill from Orpit Heights 71095,7 feet.		
Weaver Hill -	34 54 43	90525
Orpit Heights -	93 27 58	51904
Derby Steeple -	. . .	
Bar Beacon from Weaver Hill 161601 feet.		
Bar Beacon -	19 36 57	14758
Weaver Hill -	7 10 13	120382
Litchfield Spire -	. . .	
Bar Beacon from Castle Ring 51699,9 feet.		
Bar Beacon -	97 54 44	25140
Castle Ring -	24 17 4	60521
Wednesbury Steeple -	. . .	
Bar Beacon - -	79 56 1[illegible]	48345
Castle Ring - -	47 44 24	64318
Wolverhampton Spire -	. . .	
Brown Clee Hill from Ashley Heath, 168600 feet.		
Brown Clee Hill -	39 28 38	91282
Ashley Heath -	30 35 50	114017
St. Chad's Steeple, Shrewsbury -	. . .	
Ashley Heath from Cyrn y Brain 180351,1 feet.		
Ashley Heath -	56 49 47	114013
Cyrn y Brain -	38 58 17	151739
St. Chad's Steeple, Shrewsbury -	. . .	
Long Mountain from Cyrn y Brain 114778,5 feet.		
Long Mountain -	12 10 45	81670
Cyrn y Brain -	14 51 28	67193
Pile of Stones on Cyrne Moelfre.	. . .	
Stow to the Long Mountain 104104,3 feet.		
Stow - - -	42 20 41	64010
Long Mountain -	37 12 17	71306
Pole - -	. . .	
Stow from Llandinam 98832,9 feet.		
Stow - - -	73 9 33	72940
Llandinam - -	41 56 20	104457
Mount near Montgomery	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Stow - -	160 0 16	90591
Llandinam - -	9 33 30	186560
Titterstone Clee Hill, highest point - -	. . .	
Stow - -	4 55 21	90701
Llandinam -	42 35 28	11500.
Flagstaff North of Llandinam Mountain -	. . .	

Talsarn from New Inn Hill 89121 feet.

Talsarn - -	6 48 59	74023
New Inn Hill -	29 21 23	17921
Barrow near New Inn Hill	. . .	
Talsarn - -	28 44 44	105533
New Inn Hill -	93 50 20	50867
Barrow on a Hill near Newcastle -	. . .	

Talsarn from Tregarron Down 64953 feet.

Talsarn - -	12 58 41	56895
Tregarron Down -	53 20 30	15928
Karn of Stones near Llandowy - -	. . .	

Talsarn from Aberystwith 78591,5 feet.

Talsarn - -	19 29 10	93991
Aberystwith - -	107 44 53	32921
Karn of Stones on the right of Plynlimmon -	. . .	

Cleeve from Malvern Station, 100909,6 feet.

Cleeve - -	61 27 18	57623
Malvern Station -	34 36 2	89140
Glocester Cathedral -	. . .	
Cleeve - -	67 42 27	41710
Malvern Station -	24 23 50	93431
Churchdown Steeple -	. . .	

Malvern Station from May Hill 82255,5 feet

Malvern Station -	55 14 39	94887
May Hill - -	70 8 16	82889
Cheltenham Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Malvern Station -	40 22 0	93420
May Hill -	79 37 31	61512
Churchdown Steeple -	. . .	
Malvern Station -	64 33 54	85188
May Hill - -	59 18 19	89465
Cleeve Steeple -	. . .	
Malvern Station -	82 33 18	74657
May Hill -	45 33 54	103674
Beckford Steeple -	. . .	
Malvern Station -	60 19 0	95902
May Hill -	67 21 5	90279
Prestbury Steeple -	. . .	
Malvern Station -	60 33 56	57035
May Hill - -	43 10 17	73747
Tewkesbury Steeple -	. . .	
Malvern Station -	30 9 58	89133
May Hill - -	83 23 8	45090
Glocester Cathedral	. . .	
Malvern Station -	78 17 57	56516
May Hill - -	33 0 57	89858
Breedon Spire -	. . .	
Malvern Station -	19 53 10	30694
May Hill - -	11 3 51	54403
Ledbury Steeple -	. . .	
Malvern Station -	108 43 26	58750
May Hill - -	28 49 22	115413
Pershore Steeple -	. . .	

Trelleg Beacon from Mynydd Mane 86392,7 feet.

Trelleg Beacon -	22 7 18	3907
Mynydd Mane -	1 1 6	82786
Trelleg Spire -	. . .	
Trelleg Beacon -	114 47 10	22725
Mynydd Mane -	12 8 2[illegible]	98113
Mr. Hardwick's Folly	. . .	
Trelleg Beacon -	88 47 11	57151
Mynydd Mane -	33 51 10	102571
A white Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Trelleg Beacon -	105 12 52	138485
Mynydd Mane -	47 26 1	181443
Lansdown Monument	. . .	

Garth Hill from Mynydd Mane 69594,5 feet.

Garth Hill - -	50 40 55	142388
Mynydd Mane -	100 36 19	112071
Pleasure House -	. . .	
Garth Hill - -	106 12 31	58078
Mynydd Mane -	33 1 19	102337
Barrow on Carn Vawr	. . .	
Garth Hill - -	9 19 10	55019
Mynydd Mane -	30 12 38	17707
Twynbarlwm Mountain	. . .	

Garth Hill from Ogmoor Down 75847,9 feet.

Garth Hill -	19 45 41	18708
Ogmoor Down -	6 11 54	58584
Llantrissant Steeple -	. . .	
Garth Hill - -	20 25 28	19812
Ogmoor Down -	6 52 56	57697
Llantrissant Windmill	. . .	

Mynydd Mane from Llangeinor Mountain 114330,3 feet.

Mynydd Mane -	48 48 33	112662
Llangeinor - -	64 40 2	93800
Beacons of Brecknock, highest Point -	. . .	
Mynydd Mane -	114 11 19	90484
Llangeinor -	28 35 50	172442
Sugar Loaf Mountain, or Pen y Voel -	. . .	
Mynydd Mane -	4 24 13	102336
Llangeinor -	32 34 45	14593
Carn Vawr -	. . .	

Ogmoor Down from Cefn Bryn 128827,8 feet.

Ogmoor Down -	155 48 20	30343
Cefn Bryn - -	4 32 3[illegible]	156999
Penline Castle -	. . .	
Ogmoor Down -	166 50 3	42418
Cefn Bryn - -	3 15 1	170405
Clump of Trees on Stalling Down - -	. . .	

Margam Down from Llangeinor 36317,3 feet.

Margam Down -	4 20 4	29194
Llangeinor -	17 1 24	7537
Blaengarrw Barrow	. . .	

Margam Down from Cefn Bryn 98765,8 feet.

Margam Down -	52 18 40	19589
Cefn Bryn - -	10 7 37	88163
Voul Vawr Barrow -	. . .	
Margam Down -	34 1 5	264709
Cefn Bryn - -	129 10 3	191013
East Extremity of Lundy Island - -	. . .	
Margam Down -	30 46 14	261658
Cefn Bryn -	133 16 46	183875
West Extremity of Lundy Island - -	. . .	
Margam Down -	33 50 36	267043
Cefn Bryn - -	129 35 57	193015
Building on Lundy Island	. . .	
Margam Down -	19 1 45	50741
Cefn Bryn - -	18 2 22	53424
Windmill on Kilvey Hill	. . .	

Cefn Bryn from Marros Beacon 120551 feet.

Cefn Bryn -	23 36 46	49782
Marros Beacon -	14 23 30	77012
Penbree Steeple -	. . .	
Cefn Bryn - -	1 0 53	143146
Marros Beacon -	173 35 32	22714
Llandowy Steeple -	. . .	
Cefn Bryn - -	14 34 38	131362
Marros Beacon -	101 15 34	33710
Tenby Spire -	. . .	
Cefn Bryn - -	3 8 26	131914
Marros Beacon -	147 5 7	13300
Crunwell Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cefn Bryn from Lannon 62492,6 feet.		
	° ′ ″	
Cefn Bryn - -	72 30 24	131352
Lannon - -	79 35 34	127372
Tenby Spire - -	. . .	
Cefn Bryn - -	56 26 30	121175
Lannon - -	92 32 48	101078
Marros Steeple -	. . .	
Marros Beacon from Lannon 102163 feet.		
Marros Beacon -	3 31 52	67188
Lannon - -	6 43 24	35346
Kidwelly Spire -	. . .	
Marros Beacon -	132 28 56	33723
Lannon - -	11 15 29	127389
Tenby Spire -	. . .	
Marros Beacon -	48 22 39	89015
Lannon - -	57 6 22	79247
West Point of Gower -	. . .	
Marros Beacon -	116 38 39	44342
Lannon - -	17 59 25	128322
Wool House on Caldy Island	. . .	
Marros Beacon -	69 21 57	3195
Lannon - -	1 41 42	101081
Marros Steeple -	. . .	
Marros Beacon -	22 4 4	120364
Lannon - -	101 43 19	46184
Windmill near Penclath	. . .	
Ogmoor Down from Margam Down 49328,2 ft		
Ogmoor Down -	17 4 52	23063
Margam Down -	13 56 41	28111
Windmill near Lieut. Gen. Huddlestone's House	. . .	
Ogmoor Down -	26 41 6	19938
Margam Down -	15 51 39	32761
Windmill near the last	. . .	
Marros Beacon from Precelly Top 83962,5 feet.		
Marros Beacon -	71 52 39	131548
Precelly Top - -	71 0 6	132225
St. Ann's Lighthouse -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Marros Beacon -	85 47 47	95504
Precelly Top - -	51 3 39	122454
Warren Spire -	. . .	
Marros Beacon -	88 47 37	83793
Precelly Top - -	45 32 39	117366
St. Petrook's Steeple -	. . .	
Precelly Top from Plumstone Down 66753,5 ft.		
Precelly Top - -	56 44 44	34087
Plumstone Down -	30 40 18	55879
Dinas Rock - -	. . .	
Precelly Top -	25 4 28	69227
Plumstone Down -	82 8 22	29616
St. Thomas's Church Tower, Haverfordwest -	. . .	
Precelly Top -	24 0 47	68831
Plumstone Down -	82 6 49	28278
Haverfordwest Spire -	. . .	
Precelly Top -	43 26 53	115709
Plumstone Down -	102 13 55	81421
Sir H. Owen's Summer Ho	. . .	
Precelly Top -	27 22 45	66281
Plumstone Down -	76 52 8	28094
Prandergest Steeple -	. . .	
Precelly Top -	44 29 58	69759
Plumstone Down -	70 49 49	51764
Highest Point of Pencar Rock - -	. . .	
Precelly Top -	1 43 34	77314
Plumstone Down -	167 31 25	10780
Roach Castle -	. . .	
Precelly Top -	42 57 29	63198
Plumstone Down -	64 32 36	47698
Lord Milford's Summer House -	. . .	
Precelly Top -	41 4 36	122432
Plumstone Down -	107 36 47	84403
Warren Spire -	. . .	
Precelly Top -	46 35 33	117348
Plumstone Down -	99 15 4	86375
St. Petrook's Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Precelly Top from Lannon 157603 feet.		
	° ′ ″	
Precelly Top - -	47 48 20	37785
Lannon - -	11 57 14	135155
Brenin Vawr -	120 14 26	
New Inn Hill to Lannon 84401,8 feet.		
New Inn Hill -	101 4 23	90602
Lannon - -	41 8 3	135165
Brenin Vawr -	. . .	
St. Ann's Hill from Precelly Mountain 128173,9 feet.		
St. Ann's Hill -	158 8 26	4318
Precelly Top - -	0 41 49	132192
St. Ann's Lighthouse -	. . .	
St. Ann's Hill -	24 43 45	36892
Precelly Top - -	9 15 34	95914
Steinton Steeple -	. . .	
St. Ann's Hill -	66 10 58	56552
Precelly Top - -	26 9 29	117356
St. Petrook's Steeple -	. . .	
St. Ann's Hill -	16 20 44	44552
Precelly Top - -	8° 21 1	86337
Johnstone Steeple -	. . .	
St. Ann's Hill -	72 31 42	45255
Precelly Top - -	20 38 32	122448
Warren Spire -	. . .	
Plumstone Down from St. Ann's Hill 69637 ft.		
Plumstone Down -	37 46 31	81425
St. Ann's Hill -	83 57 37	50156
Sir Hugh Owen's Summer House - -	. . .	
	27 31 7	10786
Plumstone Down -	4 44 32	60278
St. Ann's Hill -	. . .	
Roach Castle - -		
	36 12 45	84879
Plumstone Down -	18 40 56	50158
St. Ann's Hill - -	. . .	
St. Twinell's Steeple -		
	39 11 31	110896
Plumstone Down -	103 6 10	71951
St. Ann's Hill -	. . .	
Highest Point of Gresholm Island - -		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Plumstone Down -	45 16 23	151963
St. Ann's Hill -	109 3 39	114227
Small's Lighthouse -	. . .	
Plumstone Down -	86 36 16	50209
St. Ann's Hill -	36 56 16	83403
Penbury Rock -	. . .	
Plumstone Down -	64 6 47	69156
St. Ann's Hill - -	57 37 35	73666
Highest Point of Ramsey Island - -	. . .	
Plumstone Down -	143 54 24	41984
St. Ann's Hill -	13 25 55	106475
Puncheston Steeple -	. . .	
Plumstone Down -	102 47 59	36497
St. Ann's Hill -	24 36 12	85483
Ruins of a Windmill near St. David's -	. . .	
Plumstone Down -	45 6 48	78248
St. Ann's Hill -	75 25 24	57283
St. Daniel's Spire -	. . .	
St. Ann's Hill from Highgate Mountain 53271,6 feet.		
St. Ann's Hill -	10 10 30	50155
Highgate Mountain -	66 12 43	9683
St. Twinell's Steeple -	. . .	
St. Ann's Hill - -	21 13 27	34631
Highgate Mountain -	30 50 57	24449
Summer House at Milford	. . .	
St. Ann's Hill - -	34 13 19	36887
Highgate Mountain -	42 20 5	30804
Steinton Steeple -	. . .	
St. Ann's Hill - -	42 36 30	44556
Highgate Mountain -	55 49 36	36458
Johnstone Steeple -	. . .	
St. Ann's Hill - -	3 5 16	57276
Highgate Mountain -	141 48 17	4989
St. Daniel's Spire -	. . .	
St. Ann's Hill - -	24 35 18	32280
Highgate Mountain -	29 18 51	27432
Milford Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
St. Ann's Hill -	26° 9′ 32″	30872
Highgate Mountain -	28 1 59	28959
Milford Market House		
St. Ann's Hill -	77 30 44	73215
Highgate Mountain -	62 21 22	80694
Plumstone Rock -		
St. Ann's Hill -	29 52 12	26868
Highgate Mountain -	24 3 31	32824
Hubberstone Steeple -		
St. Ann's Hill -	136 8 1	73666
Highgate Mountain -	25 38 5	117996
Highest Point of Ramsey Island -		
St. Ann's Hill -	22 23 25	81773
Highgate Mountain -	35 25 28	119130
Llyddy Rock -		
Plumstone Down from Highgate Mountain 78797,4 feet.		
Plumstone Down	91 6	32045
Highgate Mountain -	21 58	85637
Amblestone Steeple -		
Plumstone Down -	83 3 6	51401
Highgate Mountain -	35 6 27	88719
Mote Steeple -		
Plumstone Down -	102 25 19	41984
Highgate Mountain -	25 1 29	96928
Punchestone Steeple -		
Precelly Top from Highgate Mountain 110560,7 feet.		
Precelly Top	5 37 1	12896
Highgate Mountain .-	0 44 24	97735
Maenclochogue Steeple	. . .	
Marros Beacon from Newton Down 71196,8 feet.		
Marros Beacon	18 17 24	54605
Newton Down	41 31 43	25847
Carew Steeple -	. . .	
Marros Beacon	69 25 4	310
Newton Down	2 22 27	701
Marros Steeple		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Newton Down from Highgate Mountain 27439 feet.		
Newton Down -	60° 6′ 51″	38493
Highgate Mountain -	76 6 1	34381
Carew Beacon		
Newton Down -	79 6 55	67873
Highgate Mountain -	77 37 34	68237
Carew Windmill -		
Rhiw Mountain from Moel Rhyddlad 200017,7 feet.		
Rhiw Mountain -	63 24 51	26991
Moel Rhyddlad -	7 19 7	189482
Old Windmill on Mynydd Mynithod -		
Rhiw Mountain -	34 20 22	67441
Moel Rhyddlad -	14 45 59	149260
Rivel Mountain, highest Point - -		
Llwydiart Mountain from Llanelian Mountain in Anglesea 48180,5 feet.		
Llwydiart Mountain -	129 8 4	53636
Llanelian Mountain -	26 53 9	91984
Barrow on Penmaen Mawr		
Llwydiart Mountain .-	17 57 38	31449
Llanelian Mountain -	27 58	20679
Bodafon Fire Beacon -		
Llwydiart Mountain -	102 42 41	12620
Llanelian Mountain -	13 34 56	52424
Windmill near Llandonna		
Llwydiart Mountain -	38 41 13	41431
Llanelian Mountain -	58 32 52	30358
Llanerchmedd Windmill		
Llwydiart Mountain -	63 23 35	18719
Llanelian Mountain -	22 48 35	43173
Windmill near Llanbedrgoch - -		
Llwydiart Mountain	45 8 6	36602
Llanelian Mountain	49 14 32	34249
Coedana Church		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet
	° ′ ″	
Llwydiart Mountain -	8 52 36	39937
Llanelian Mountain -	35 14 33	10680
Highest Rock on Ynys Gadarn - -	. . .	
Llwydiart Mountain -	12 50 37	27749
Llanelian Mountain -	16 16 37	22008
Large Stone on Ynys traeth Bychan - -	. . .	
Llwydiart Mountain -	144 43 53	110579
Llanelian Mountain -	24 45 21	152475
Belvidere near Plasnewydd	. . .	
Llwydiart Mountain -	69 24 31	91662
Llanelian Mountain -	79 28 28	87275
Rock on the Summit of a Hill near Rhoscollyn	. . .	
Llwydiart Mountain from Moel Rhyddlad 85401,1 feet.		
Llwydiart Mountain -	32 21 36	91663
Moel Rhyddlad -	80 46 8	49705
Rock on the Summit of a Hill near Rhoscollyn	. . .	
Llwydiart Mountain -	153 18 25	65109
Moel Rhyddlad -	11 30 52	146520
Barrow on Carnedd David	. . .	
Llwydiart Mountain -	87 59 31	125451
Moel Rhyddlad -	57 7 59	149267
Rivel Mountain highest Point - -	. . .	
Llwydiart Mountain -	91 44 19	114285
Moel Rhyddlad -	52 7 6	144729
Gertwyn Goch, highest Point	. . .	
Llwydiart Mountain -	61 36 54	52624
Moel Rhyddlad -	37 28 40	76090
South-east Chimney of Bodorgan House -	. . .	
Llwydiart Mountain -	54 15 54	47400
Moel Rhyddlad -	33 41 17	69367
Windmill near Tresdraeth	. . .	
Llwydiart Mountain -	84 18 23	166668
Moel Rhyddlad -	67 26 59	179576
Pile of Stones on a high Hill near Edern -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Llanelian Mountain in Anglesea from Moel Rhyddlad 55199,1 feet.		
	° ′ ″	
Llanelian Mountain -	64 41 20	196118
Moel Rhyddlad -	99 10 44	179590
Pile near Edern -	. . .	
Llanelian Mountain -	138 6 14	91976
Moel Rhyddlad -	26 24 45	138075
Barrow on Penmaen Mawr	. .	
Llanelian Mountain -	83 15 11	20679
Moel Rhyddlad -	21 15 49	56625
Bodafon Fire Beacon -	. .	
Llanelian Mountain -	67 20 25	68365
Moel Rhyddlad	65 25 2	69376
Windmill near Tresdraeth	. . .	
Llanelian Mountain -	88 24 44	43170
Moel Rhyddlad -	38 37 42	69127
Windmill near Llanbedrgoch - -	. . .	
Llanelian Mountain -	14 48 5	68026
Moel Rhyddlad -	121 18 19	20339
Skerry Lighthouse -	. . .	
Llanelian Mountain -	121 7 53	112705
Moel Rhyddlad -	40 22 20	148937
Carnedd Llewellyn, highest Point - -	. . .	
Llanelian Mountain -	117 10 36	112849
Moel Rhyddlad -	43 14 38	146533
Barrow on Carnedd David	. .	
Llanelian Mountain -	15 46 32	66982
Moel Rhyddlad -	116 57 12	20429
Flagstaff on Skerry Island	. . .	
Llanelian Mountain -	124 48 22	52421
Moel Rhyddlad -	26 49 26	95386
Windmill near Llandonna	. .	
Llanelian Mountain -	52 40 23	30357
Moel Rhyddlad -	33 16 10	44004
Llanerchmedd Windmill	. . .	
Llanelian Mountain -	28 10 56	10834
Moel Rhyddlad -	6 23 43	45935
Amlwch Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Llanelian Mountain -	14	44	48	56238
Moel Rhyddlad -	86	44	54	14338
Highest Point of the West Mouse - -	.	.	.	
Llanelian Mountain -	81	19	42	3995
Moel Rhyddlad -	4	8	16	54739
Llanelian Spire -	.	.	.	
Llanelian Mountain -	117	18	17	6235
Moel Rhyddlad -	5	27	5	58323
Signal Staff on Point Elianus - -	.	.	.	
Llanelian Mountain in Anglesea from Garreg Mountain 221262,5 feet.				
Llanelian Mountain -	80	33	58	6235
Garreg Mountain -	1	35	[illegible]	20326
Signal Staff on Point Elianus - -	.	.	.	
Llanelian Mountain in Denbighshire from Garreg Mountain 95119,6 [illegible]				
Llanelian Mountain -	10	[illegible]	4	79970
Garreg Mountain -	40	19	17	21463
Signal Staff near Gwaunysgaer - -	.	.	.	
Llanelian Mountain -	27	59	39	110527
Garreg Mountain -	92	43	[illegible]	[illegible]
Moel Fammau -	.	.	.	
Llanelian Mountain -	9	30	57	81825
Garreg Mountain -	43	10	8	19772
St. Elmo Summer House	.	.	.	
Llanelian Mountain in Denbighshire from Llanelian Mountain in Anglesea 134700,5 feet.				
Llanelian Mountain -	138	37	5	81840
Llanelian Mountain -	15	25	23	203434
St. Elmo Summer House	.	.	.	
Llanelian Mountain -	9	49	4	88262
Llanelian Mountain -	17	30	0	50049
Llandonna Signal Staff	.	.	.	
Llanelian Mountain in Denbighshire from Cyrn y Brain Mountain 145773,8 feet.				
Llanelian Mountain -	13	24	32	110527
Cyrn y Brain Mountain	33	49	6	46052
Moel Fammau -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Llanelian Mountain -	25	44	43	151441
Cyrn y Brain Mountain	81	53	48	66445
Pile of Stones on Cader Ferwyn - -	.	.	.	
Base Line on Rhuddlan Marsh 24514,3 feet.				
East End of Base -	128	28	45	12670
West End of Base -	17	1	17	33882
St. Asaph Cathedral		.	.	
East End of Base -	102	22	45	1591
West End of Base -	3	34	37	24904
Rhuddlan Steeple -	.	.	.	
East End of Base -	8	9	59	24390
West End of Base -	83	52	37	3484
Abergele Steeple -	.	.	.	
East End of Base -	143	40	2	58508
West End of Base -	25	49	7	79593
Earl Grosvenor's Summer House - -	.	.	.	
East End of Base -	151	23	42	23530
West End of Base -	14	0	12	46556
Goperlini Fire Beacon	.	.	.	
East End of Base -	38	54	15	23723
West End of Base -	67	53	18	16081
Melwyn Glodadd Old Windmill -	.	.	.	
East End of Base -	9	53	0	33824
West End of Base -	146	36	31	10549
Signal Staff on Cave Hill	.	.	.	
East End of Base from Moelfre Issa 26427,8 ft.				
East End of Base -	81	30	13	112800
Moelfre Issa -	85	0	23	112047
Highest Point of Moel Morwith - -	.	.	.	
East End of Base from Gwaunysgaer Down 20981,2 feet.				
East End of Base -	114	34	44	8145
Gwaunysgaer Down -	19	54	25	25170
Flagstaff at Wygfair -	.	.	.	
East End of Base -	10	11	42	23528
Gwaunysgaer Down -	103	48	35	6757
Goperlini Fire Beacon	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.	Distance in Feet.
West End of Base from Moelfre Issa 17602,2 ft.		
West End of Base -	70 51 15	10548
Moelfre Issa -	35 10 2	17301
Signal Staff on Cave Hill		
Cyrn y Brain Mountain from Long Mountain 144778,5 feet.		
Cyrn y Brain Mountain	48 54 57	66443
Long Mountain	26 20 53	112838
Pile of Stones on Cader Ferwyn - -		
Cyrn y Brain Mountain	125	35682
Long Mountain -	10	167846
Fire Beacon near Caergwrte Castle -		
Cyrn y Brain Mountain	124 32 49	82609
Long Mountain -	19 32 56	203346
Trinity Spire, Chester -		
Cyrn y Brain Mountain from Delamere Fores 126431,6 feet.		
Cyrn y Brain Mountain	16 41 6	190893
Delamere Forest -	135 49 58	78661
Winwick Spire -	. . .	
Cyrn y Brain Mountain	59 36 56	63661
Delamere Forest -	30 14 0	109067
Moel y Gaer Fire Beacon	. . .	
Cyrn y Brain Mountain from Garreg Mountain 97450 feet.		
Cyrn y Brain Mountain	14 46 20	63664
Garreg Mountain -	24 20 13	39391
Moel y Gaer Fire Beacon	. . .	
Cyrn y Brain Mountain	31 14 29	94662
Garreg Mountain -	71 24 31	51799
Neston Steeple -	. . .	
Cyrn y Brain Mountain	64 26 10	82610
Garreg Mountain -	50 19 50	96815
Trinity Spire, Chester -	. . .	
Garreg Mountain from Delamere Forest 137294 feet.		
Garreg Mountain	49 8 8	63044
Delamere Forest	26 24	107229
Bidston Lighthouse		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Garreg Mountain -	43 14 41	79498
Delamere Forest -	34 27 14	96273
St. Paul's, Liverpool -		
Delamere Forest from Ashley Heath 129401,1 feet.		
Delamere Forest -	34 18 16	34050
Ashley Heath -	10 43 47	103076
Beeston Castle, highest Point - -		
Delamere Forest from Belle-field Hill 53307,1 feet.		
Delamere Forest -	28 33 50	40741
Belle-field Hill -	48 1 29	26202
Halton Castle -	. . .	
Delamere Forest	11 15 56	78654
Belle-field Hill -	147 11 18	28356
Winwick Spire	. . .	
Delamere Forest from Billinge Beacon 104463,5 feet.		
Delamere Forest -	15 53 24	148512
Billinge Beacon -	133 20 33	55910
Rivington Pike - -		
Delamere Forest -	48 32 56	107223
Billinge Beacon -	97 22 52	87062
Bidston Lighthouse		
Delamere Forest from Heswell Hill 99750,6 ft.		
Delamere Forest	21 32 16	96271
Heswell Hill -	73 54 4	36785
St. Paul's, Liverpool -		
Delamere Forest -	111 22	34059
Heswell Hill -	15 47	116564
Beeston Castle -		
Heswell Hill from Billinge Beacon 105303,5 ft.		
Heswell Hill -	39 4	25400
Billinge Beacon -	10 35	87068
Bidston Lighthouse		
Heswell Hill -	164 30 3	212108
Billinge Beacon -	10 22 17	314842
Highest Point of Tryfan Rock in Wales -		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Heswell Hill -	51 43 17	76157
Billinge Beacon -	45 48 22	83383
N. W. Landmark near Formby - -	. . .	
Heswell Hill - -	46 55 55	75453
Billinge Beacon -	45 42 22	77010
S. E. Landmark near Formby - -	. . .	
Heswell Hill -	36 57 37	60093
Billinge Beacon -	32 14 25	67729
Crosby Steeple - -	. . .	
Heswell Hill - -	92 7 20	27779
Billinge Beacon -	14 37 53	109896
Helbre Lighthouse -	. . .	
Heswell Hill -	23 20 27	22120
Billinge Beacon -	5 53 13	85445
Bebbington Spire -	. . .	
Heswell Hill -	132 28 58	48899
Billinge Beacon -	14 36 42	142952
Point of Air Lighthouse	. . .	
Heswell Hill - -	28 18 30	68633
Billinge Beacon -	35 57 2	55438
Sephton Spire -	. . .	
Heswell Hill - -	8 21 54	46312
Billinge Beacon -	6 27 43	59864
Wavertree Steeple -	. . .	
Heswell Hill -	24 58 35	93259
Billinge Beacon -	62 11 42	44518
Windmill on the Race-ground near Ormskirk	. . .	
Heswell Hill - -	62 52 50	29614
Billinge Beacon -	16 1 11	95513
Leasowes Lighthouse -	. . .	
Garreg Mountain from Heswell Hill 45852,5 f.		
Garreg Mountain -	45 28 23	100938
Heswell Hill -	109 6 28	76156
N. W. Landmark near Formby - -	. . .	
Garreg Mountain -	42 4 25	102951
Heswell Hill -	113 53 50	75454
S. E. Landm. near Formby	. . .	

Names of Stations and intersected Objects.	Observed Angles	Distances in Feet.
	° ′ ″	
Garreg Mountain -	35 53 26	44147
Heswell Hill - -	68 42 25	27777
Helbre Lighthouse -	. . .	
Garreg Mountain -	20 10 25	51792
Heswell Hill - -	98 47 32	18074
Neston Steeple -	. . .	
Garreg Mountain -	83 4 5	23385
Heswell Hill - -	28 20 46	48893
Point of Air Lighthouse	. . .	
Garreg Mountain -	38 9 41	21166
Heswell Hill - -	24 7 10	32004
Pen Maes Amwell Windmill - -	. . .	
Garreg Mountain -	12 45 21	74563
Heswell Hill - -	148 30 16	31513
Eastham Spire -	. . .	
Cyrn y Brain Mountain from Heswell Hill 108837,6 feet.		
Cyrn y Brain Mountain	16 29 5	110635
Heswell Hill - -	84 59 34	31514
Eastham Spire -	. . .	
Cyrn y Brain Mountain	39 31 48	82603
Heswell Hill - -	49 21 35	69286
Trinity Spire, Chester -	. . .	
Heswell Hill from Belle-field Hill 113961,3 ft.		
Heswell Hill - -	24 27 7	73223
Belle-field Hill -	32 38 53	56182
Prescot Spire -	. . .	
Heswell Hill - -	45 27 12	43937
Belle-field Hill -	20 38 17	88840
Everton Flagstaff -	. . .	
Billinge Beacon from Belle-field Hill 63369,2 ft.		
Billinge Beacon -	89 18 48	63033
Belle-field Hill - -	45 11 21	88843
Everton Flagstaff -	. . .	
Billinge Beacon -	62 0 30	34825
Belle-field Hill - -	33 10 57	56186
Prescot Spire - -	. . .	
Billinge Beacon -	23 47 38	63724
Belle-field Hill - -	78 51 49	26203
Halton Castle -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet
	° ′ ″	
Billinge Beacon -	109 15 17	55917
Belle-field Hill - -	32 50 0	97363
Rivington Pike -	. . .	
Billinge Beacon -	74 59 10	85446
Belle-field Hill - -	63 27 6	92256
Bebbington Spire -	. . .	
Billinge Beacon -	3 57 7	50834
Belle-field Hill - -	15 28 25	13132
Sankey Street Chapel, Warrington - -	. . .	
Billinge Beacon -	7 20 47	51889
Belle-field Hill - -	29 7 45	13630
Warrington Steeple -	. . .	
Billinge Beacon -	57 18 29	102305
Belle field Hill - -	84 37 3	86480
St. Mary's Spire, Manchester - -	. . .	
Billinge Beacon -	129 50 6	31489
Belle-field Hill - -	16 8 33	86969
Standish Spire -	. . .	
Billinge Beacon from Go Hill 46647,8 feet.		
Billinge Beacon -	86 23 15	31486
Go Hill - -	35 7 42	54610
Standish Spire -	. . .	
Billinge Beacon -	42 39 15	22825
Go Hill - -	27 22 52	33628
Ashurst Beacon -	. . .	
Billinge Beacon -	26 57 20	55438
Go Hill - -	96 17 6	25282
Sephton Spire -	. . .	
Billinge Beacon -	30 39 53	67721
Go Hill - -	108 34 12	36435
Crosby steeple -	. . .	
Billinge Beacon -	20 27 49	77220
Go Hill - -	133 35 20	37273
North Meals Spire -	. . .	
Billinge Beacon -	3 12 36	58654
Go Hill - -	164 35 17	12358
Halsall Spire -	. . .	

Names of Stations and intersected Objects	Observed Angles.	Distances in Feet.
	° ′ ″	
Billinge Beacon -	105 39 4	42741
Go Hill - -	35 16 35	71264
Blackrod Steeple -	. . .	
Billinge Beacon -	9 56 40	45926
Go Hill - -	79 54 15	8056
Aughton Spire -	. . .	
Billinge Beacon -	22 40 55	63726
Go Hill - -	116 18 31	27413
Blundell's Summer House	. . .	
Llanelian Mountain in Denbighshire from Billinge Beacon 239683 feet.		
Llanelian Mountain -	8 31 56	184143
Billinge Beacon -	25 23 13	63726
Blundell's Summer House	. . .	
Garreg Mountain from Billinge Beacon 149374,3 feet.		
Garreg Mountain -	15 54 47	122863
Billinge Beacon - -	47 10 34	45929
Aughton Spire -	. . .	
Heswell Hill from Go Hill 93756,3 feet.		
Heswell Hill -	25 25 47	76159
Go Hill - -	52 37 48	41149
N. W. Landmark near Formby - -	. . .	
Heswell Hill -	20 38 25	75454
Go Hill - -	48 58 12	35258
S. E. Landm. near Formby	. . .	
Heswell Hill - -	1 54 8	97911
Go Hill - -	141 36 16	5233
Ormskirk Spire -	. . .	
Heswell Hill - -	1 18 55	93260
Go Hill - -	76 19 0	2203
Windmill on the Race-ground near Ormskirk	. . .	
Heswell Hill -	36 35 18	29607
Go Hill - -	14 9 11	72175
Leasowe's Lighthouse -	. . .	
Billinge Beacon from Wittle Hill 113827,4 feet.		
Billinge Beacon -	35 47 10	102312
Wittle Hill - -	62 44 11	67305
St. Mary's Spire, Manches	. . .	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Wittle Hill - -	98	54	58	8823
Billinge Beacon -	76	45	23	115524
Knoll Hill - -	.	.	.	
Knoll Hill - -	156	33	49	35962
Wittle Hill -	18	52	56	44196
Bennington Steeple -	.	.	.	
Knoll Hill - -	137	27	6	40456
Wittle Hill -	35	18	25	47333
Lord Gray's Belvidere	.	.	.	
Wittle Hill from Boulsworth Hill 64650,8 feet				
Wittle Hill - -	54	38	20	63509
Boulsworth Hill -	61	41	33	58828
Justice Waller's Pleasure House - -	.	.	.	
Boulsworth Hill from Ingleborough Hill 141994,3 feet.				
Boulsworth Hill -	0	4	39	142051
Ingleborough Hill -	106	24	9	200
Old Building on Ingleborough Hill -	.	.	.	
Boulsworth Hill -	12	13	24	127448
Ingleborough Hill -	57	7	52	32126
Highest Rock on Pennigant Hill - -	.	.	.	
Boulsworth Hill from Rumbles Moor 68367,9 feet.				
Boulsworth Hill -	58	27	15	140262
Rumbles Moor - -	92	24	8	119640
Highest Barrow on Cam Fell - -	.	.	.	
Boulsworth Hill -	55	16	54	39128
Rumbles Moor - -	34	54	40	56196
Pinnow Fire Beacon -	.	.	.	
Rumbles Moor from Ledstone Beacon 119122,5 feet.				
Rumbles Moor -	45	45	31	121777
Ledstone Beacon -	74	4	37	74002
Staincross Fire Beacon	.	.	.	
Rumbles Moor -	53	45	27	44971
Ledstone Beacon -	21	24	12	99390
Fire Beacon on a Rock near Otley - -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Rumbles Moor -	39	42	6	116405
Ledstone Beacon -	68	19	8	80020
Blackett's Gazebo - -	.	.	.	
Rumbles Moor -	35	1	59	180819
Ledstone Beacon -	105	34	36	107756
Woburnstand Monument	.	.	.	
Rumbles Moor -	30	19	10	162023
Ledstone Beacon -	104	13	41	84381
York Spire - -	.	.	.	
Rumbles Moor -	25	17	13	107386
Ledstone Beacon -	64	21	2	50884
Wakefield Spire -	.	.	.	
Ledstone Beacon from Staincross Heights 78589,6 feet.				
Ledstone Beacon -	7	23	4	73996
Staincross Heights -	61	17	53	10843
Staincross Fire Beacon	.	.	.	
Ledstone Beacon -	13	8	32	80022
Staincross Heights -	87	54	44	18207
Blackett's Gazebo -	.	.	.	
Ledstone Beacon -	24	6	56	107753
Staincross Heights -	114	10	15	48256
Woburnstand Monument	.	.	.	
Ledstone Beacon -	17	6	38	50883
Staincross Heights -	26	33	5	33491
Wakefield Spire -	.	.	.	
Ledstone Beacon -	20	5	52	51060
Staincross Heights -	29	47	53	35307
Wakefield New Church	.	.	.	
Ledstone Beacon -	120	59	59	50820
Staincross Heights -	22	34	4	113459
Brayton Spire -	.	.	.	
Ledstone Beacon -	109	35	22	75941
Staincross Heights -	34	30	45	126275
Drax Spire - -	.	.	.	
Ledstone Beacon -	38	54	13	82705
Staincross Heights -	74	40	49	53853
Bilham Grange Summer House - -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.	Distance in Feet.
Rumbles Moor from Staincross Heights 132613,5 feet.		
Rumbles Moor -	46° 25′ 13″	47469
Staincross Heights	18 59 46	105643
Swilling End Fire Beacon	. . .	
Rumbles Moor -	17 51 7	50788
Staincross Heights	10 28 4	85697
Windm. on Clayton Heights	. . .	
Rumbles Moor -	6 27 0	125028
Staincross Heights -	59 11 8	16354
High Howland Church Tower - -	. . .	
Ledstone Beacon from Hambleton Down 173679,7 feet.		
Ledstone Beacon	52 24 54	99397
Hambleton Down -	34 51 57	137787
Fire Beacon on a Rock near Otley - -		
Ledstone Beacon -	95 7 49	75946
Hambleton Down -	22 44 25	195682
Drax Spire -		
Ledstone Beacon -	88 46 35	98507
Hambleton Down -	29 51 21	197832
Howden Steeple -	. .	
Ledstone Beacon -	48 41 0	139139
Hambleton Down -	51 56 32	132722
Bishop Wilton Spire -		
Ledstone Beacon -	26 35 2	33280
Hambleton Down -	5 54 29	144687
Obelisk near Brambam		
Ledstone Beacon from Black Hambleton 194930,8 feet.		
Ledstone Beacon -	23 45 4	33280
Black Hambleton -	4 39 33	165015
Obelisk near Brambam	. . .	
Ledstone Beacon -	51 30 58	139135
Black Hambleton -	45 8 56	153627
Bishop Wilton Spire -	. . .	
Ledstone Beacon -	86 37 10	50823
Black Hambleton -	14 48 24	198526
Brayton Spire - -	. . .	
Ledstone Beacon -	66° 10′ 39″	92388
Black Hambleton - -	28 12 4	178845
Fire Beacon westward of Otley - -		
Rumbles Moor from Black Hambleton 192504,3 feet.		
Rumbles Moor -	57 14 2	28147
Black Hambleton -	7 36 18	178844
Fire Beacon westward of Otley - -		
Rumbles Moor -	155 30 21	47476
Black Hambleton -	4 46 25	236528
Swilling End Fire Beacon		
Hambleton Down from Wilton Beacon 133262,7 feet.		
Hambleton Down	24 39 11	197832
Wilton Beacon	119 25	94738
Howden Steeple		
Hambleton Down from Black Hambleton 23119,3 feet.		
Hambleton Down -	104 34 38	76521
Black Hambleton	60 13 13	85326
Northmost Tower on Ripon Church		
Wilton Beacon from Hunsley Beacon 82862,3 ft.		
Wilton Beacon -	42 50 24	94741
Hunsley Beacon -	78 15 19	65797
Howden Steeple -	. . .	
Wilton Beacon - -	27 6 26	57395
Hunsley Beacon -	39 27 34	41151
Home Church Tower -	. . .	
Burleigh Moor from Easington Heights 42270,7 feet.		
Burleigh Moor	40 44 51	51504
Easington Heights -	84 28 29	33774
Danby Fire Beacon -		
Burleigh Moor -	126 21 42	54368
Easington Heights -	30 26 25	86416
Hartlepool Steeple -		
Burleigh Moor -	138 30 6	87740
Easington Heights	28 17 48	122640
A white Spire - -		

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Burleigh Moor -	149	34	18	110856
Easington Heights -	22	9	33	148852
Signal Staff - -	.	.	.	
Burleigh Moor -	119	23	4	162322
Easington Heights -	49	14	22	186731
Signal Staff near Sunderl.	.	.	.	
Burleigh Moor -	121	58	14	143727
Easington Heights -	45	50	51	169935
Sunderland Steeple -	.	.	.	
Burleigh Moor -	135	19	28	14811
Easington Heights -	11	9	24	53820
A Church Tower with high Pinnacles - -	.	.	.	
Burleigh Moor -	104	59	47	16715
Easington Heights -	19	6	44	49313
Gable End of a House at Redcar - -	.	.	.	
Burleigh Moor -	122	10	46	19531
Easington Heights -	17	25	26	55205
Centre Pediment of a House at Cotham -	.	.	.	
Burleigh Moor -	100	32	7	16038
Easington Heights -	19	13	48	47875
Redcar Staff -	.	.	.	
Burleigh Moor -	120	26	16	48875
Easington Heights -	32	9	20	79176
Windmill on the Summit of a Hill near Houghton	.	.	.	
Burleigh Moor -	151	57	52	25891
Easington Heights -	10	35	4	66251
Church Tower among Trees	.		.	
Burleigh Moor from Botton Head 60956,5 feet.				
Burleigh Moor -	24	24	11	26094
Botton Head - -	16	9	54	38724
Roseberry Topping -	.	.	.	
Burleigh Moor -	137	31	38	54367
Botton Head - -	19	57	52	107520
Hartlepool Steeple -	.	.	.	
Burleigh Moor -	78	27	10	57827
Botton Head - -	48	55	31	75156
Stockton Market House	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Burleigh Moor -	72	42	42	53175
Botton Head - -	48	21	8	67947
Windmill near Stockton	.	.	.	
Botton Head from Easington Heights 77788,9 feet.				
Botton Head - -	30	31	52	13433
Easington Heights -	5	53	2	66569
Westerdale Station -	.	.	.	
Botton Head - -	52	39	56	107500
Easington Heights -	81	37	6	86397
Hartlepool Church Tower	.	.	.	
Botton Head - -	52	3	1	103348
Easington Heights -	82	33	33	86163
Hartlepool Signal Staff	.	.	.	
Loosehoe Moor from Botton Head 35244,2 feet.				
Loosehoe Moor -	126	52	48	141943
Botton Head - -	43	18	47	165513
Church Tower near Scarborough - -	.	.	.	
Hunsley Beacon from Crowle Beacon 87370 ft.				
Hunsley Beacon -	113	23	1	48631
Crowle Beacon -	22	42	25	115633
Nunburnholme Station -	.	.	.	
Hunsley Beacon -	1	9	56	89520
Crowle Beacon -	139	29	49	2804
Crowle Steeple - -	.	.	.	
Clifton Beacon from Crowle Beacon 102613,6 feet.				
Clifton Beacon -	41	40	20	123690
Crowle Beacon -	82	54	53	82871
Selby Steeple - -	.	.	.	
Crowle Beacon -	85	10	58	88930
Clifton Beacon -	42	53	36	129893
Brayton Spire - -	.	.	.	
Clifton Beacon -	47	5	56	73349
Crowle Beacon -	45	33	53	75248
Gringley Steeple -	.	.	.	
Clifton Beacon -	24	26	33	81680
Crowle Beacon -	50	6	20	44052
Axholme Steeple -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet
Clifton Beacon	124 42 6	25109
Crowle Beacon	10 6 59	118928
Loughton Spire		
Clifton Beacon	21 53 6	46610
Crowle Beacon	16 18 48	61852
Hatfield Steeple		
Clifton Beacon	9 56 5	82725
Crowle Beacon	34 2 19	25497
Thorne Steeple		
Gringley Beacon from Crowle Beacon 74543,4 feet.		
Gringley Beacon	7 58 2	45578
Crowle Beacon	12 7 30	30076
Epworth Steeple	. . .	
Crowle Beacon	12 14 55	22457
Gringley Beacon	5 10 33	52812
Belton Steeple -	. . .	
Gringley Beacon from Clifton 750681,1 feet.		
Gringley Beacon -	33 19 4	18483
Clifton Beacon -	9 39 49	60481
Missin Steeple -		
Gringley to North End of Base 44338,2 feet.		
Gringley Beacon	21 18 32	52817
North End of Base	104 13 50	19801
Belton Steeple -		
Gringley Beacon	24 6 14	45580
North End of Base	81 38 58	18814
Epworth Steeple		
Gringley Beacon	91 11 38	30661
Clifton Beacon	22 2 37	81678
Axholme Steeple		
Gringley Beacon	80 31 8	10724
Clifton Beacon	8 12 41	74061
Retford Spire		
Staincross Heights from Clifton Beacon 79929,2 feet.		
Staincross Heights	11 31 2	67978
Clifton Beacon	15 32 21	19017
Milton Steeple -		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
North End of Base to South End of Base 26342,7 feet.		
North End of Base -	22 27 39	5851
South End of Base -	6 5 39	21055
Wroot Chapel -		
Go Hill from Beryl Hill 104867,8 feet.		
Go Hill - -	80 46	5231
Beryl Hill - -	2 50 2	104158
Ormskirk Spire		
Go Hill - -	3 17 4	67162
Beryl Hill - -	5 49 3	38013
Flagstaff near North Meal.		
Go Hill - -	104 11 5	33629
Beryl Hill - -	16 4 4	17721
Ashurst Beacon		
Beryl Hill - -	120 43 14	2973
Ashurst Beacon -	58 3 4	119268
North Station on the Cliff near Blackpool		
Beryl Hill - -	23 25 12	3316
North Station -	93 0 5	1320
South Station on the Cliff near Blackpool -	63 33 57	
Beryl Hill - -	80 41 39	6910
North Station - -	74 46 25	7067
Flagstaff with a Vane on the Sea-coast		
Beryl Hill - -	100 19 56	6470
North Station - -	56 59 57	7590
Bispham Church Tower		
Beryl Hill - -	103 41 1	32912
North Station -	71 24 0	33739
Summer House near Rossal		
Beryl Hill - -	104 6 55	6911
South Station -	53 16 10	8363
Flagstaff with a Vane near the Sea-coast		
Beryl Hill - -	123 45 13	6463
South Station - -	37 53 1	8752
Bispham Church Tower		

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Beryl Hill - -	127	6	34	32915
South Station - -	48	33	34	35016
Summer House near Rossal	.	.	.	
Beryl Hill from Black Comb 164674,5 feet.				
Beryl Hill - -	18	12	52	29622
Black Comb -	3	52	46	136851
Landmark, Rossal Point	.	.	.	
Beryl Hill - -	96	58	13	11035
Black Comb - -	3	46	29	166373
Poulton Church Tower	.	.	.	
Black Comb from Ingleborough Hill 201970,3 feet.				
Black Comb -	52	11	26	60478
Ingleborough Hill -	16	9	35	171678
Pile of Stones on Coniston Fell - -	.	.	.	
Black Comb - -	79	58	11	75972
Ingleborough Hill -	21	37	19	203024
Highest Point of Sca-Fell	.	.	.	
Black Comb - -	55	50	8	78749
Ingleborough Hill -	22	26	38	170675
Peel Castle - -	.	.	.	
Black Comb from The Calf 178609,8 feet.				
Black Comb -	47	7	42	135152
The Calf - -	48	49	3	131607
Lancaster Church Tower near the Castle -	.	.	.	
Black Comb -	29	43	7	60481
The Calf - -	13	22	37	129599
Coniston Fell -	.	.	.	
Black Comb -	60	48	18	85156
The Calf - -	28	28	20	155932
Pile of Stones on Great Gavel - -	.	.	.	
Black Comb from Dent Hill 95963,3 feet.				
Black Comb -	7	42	54	119396
Dent Hill - -	144	21	22	27505
Windmill near Whitehaven	.	.	.	
Black Comb - -	27	11	6	88107
Dent Hill - -	66	23	47	43928
Pile of Stones on the Pillar	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Dent Hill from Scilly Bank 25910,8 feet.				
Dent Hill - -	118	27	25	42963
Scilly Bank - - -	39	9	29	59827
Pile of Stones on Red Pike	.	.	.	
Dent Hill - -	83	45	34	32329
Scilly Bank - -	55	7	39	39172
Pile of Stones on Blake Fell	.	.	.	
Dent Hill - -	98	4	10	51026
Scilly Bank - -	56	47	21	60384
Highest Point of Grasmere Fell - -	.	.	.	
Dent Hill - -	94	27	45	37030
Scilly Bank - -	61	54	31	64450
Grisdale Pike -	.	.	.	
Dent Hill - -	7	44	41	20230
Scilly Bank - -	24	55	36	6453
Windmill near Whelpside Hall - -	.	.	.	
Dent Hill - -	17	45	28	53191
Scilly Bank - -	146	45	7	29589
Chapel on Workington Head - -	.	.	.	
Dent Hill from Crif-Fell Hill 162371,1 feet.				
Dent Hill - -	103	22	32	43926
Crif-Fell Hill - -	13	54	42	177747
The Pillar - -	.	.	.	
Dent Hill - -	1	0	28	136655
Crif-Fell Hill -	5	20	7	25849
Lighthouse, Saturness Point - -	.	.	.	
Dent Hill - -	34	30	48	20229
Crif-Fell Hill -	4	29	53	146152
Windmill near Whelpside House - -	.	.	.	
Scilly Bank from Crif-Fell Hill 139727,3 feet.				
Scilly Bank - -	131	0	27	23356
Crit-Fell Hill - -	6	29	6	156051
Lighthouse, St. Bee's Head - -	.	.	.	

Names of Stations and intersected Objects	Observed Angles.	Distances in Feet
The Calf from Ingleborough Hill 77614,6 feet.		
	° ′ ″	
The Calf - -	120 52 29	151951
Ingleborough Hill -	39 58 13	203020
Sea-Fell - -	. . .	
The Calf - -	70 34 6	179999
Ingleborough Hill -	84 2 11	170670
Peel Castle - -	. . .	
The Calf - -	97 3 30	131604
Ingleborough Hill -	47 7 9	97174
Lancaster Church Tower	. . .	
The Calf - -	17 38 50	95829
Ingleborough Hill -	115 15 21	32122
Pennigant Hill -	. . .	
The Calf - -	35 21 10	62612
Ingleborough Hill -	53 45 58	44914
Kirkby Lonsdale Church Tower - -	. . .	
The Calf - -	6 15 42	56375
Ingleborough Hill -	15 54 24	22435
Whernside in Ingleton Fells	. . .	
The Calf from Water Crag 89384 feet.		
The Calf - -	81 38 29	56376
Water Crag -	34 29 22	98502
Whernside - -	. . .	
The Calf from Cross Fell 122505,3 feet.		
The Calf - -	26 5 56	122388
Cross Fell - -	76 49 57	55295
Penrith Beacon -	. . .	
The Calf from High Pike 169069,5 feet.		
The Calf - -	19 31 5	122390
High Pike - -	37 16 53	67506
Penrith Beacon -	. . .	
The Calf - -	31 13 25	155925
High Pike - -	66 9 8	88373
Pile of Stones on Great Gavel - -	. . .	
Cross Fell from High Pike 120904,9 feet.		
Cross Fell - -	33 14 21	171570
High Pike - -	103 30 35	96720
Bow Fell - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Cross Fell - -	2 11 33	113385
High Pike -	29 42 27	8753
Pile of Stones on Carrock Fell - -	. . .	
Cross Fell - -	68 2 3	74815
High Pike -	36 44 59	115967
Cold-Fell Pike - -	. . .	
Cross Fell - -	79 24 13	44144
High Pike -	21 2 34	120846
Daffenside Beacon -	. . .	
Cross Fell - -	11 21 49	121303
High Pike -	85 15 55	23983
Saddle Back - -	. . .	
Cross Fell from Crif-Fell Hill 255886,1 feet.		
Cross Fell - -	48 22 48	74820*
Crif-Fell Hill - -	15 10 38	213643
Cold Fell Pike -	. . .	
Cross Fell - -	59 45 0	44144
Crif-Fell Hill -	9 16 10	236739
Daffenside Beacon -	. . .	
Cross Fell - -	21 50 47	113386
Crif-Fell Hill -	15 38 49	156440
Carrock Fell - -	. . .	
Cross Fell from Water Crag 125741,8 feet.		
Cross Fell - -	13 7 52	101367
Water Crag -	40 26 6	35506
Highest Pile on the Nine Standards - -	. . .	
Cross Fell - -	89 3 29	55673
Water Crag -	24 2 3	136676
Pile of Stones on Kilhope Law - -	. . .	
Crif Fell Hill from High Pike 147733,5 feet.		
Crif-Fell Hill - -	38 41 44	25812
High Pike -	7 12 30	128605
Lighthouse, Saturness Point - -	. . .	
Crif-Fell Hill - -	65 38 23	25317
High Pike - -	9 32 8	139215
Carlaveroc Castle -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Crif-Fell Hill - -	47 50 47	79672
High Pike -	32 4 14	111240
Annan Spire - -	. . .	
Crif-Fell - -	48 53 22	78148
High Pike - -	31 25 46	112917
Spire on the Townhouse in Annan - -	. . .	
Crif-Fell - -	32 20 38	213478
High Pike - -	105 56 30	118778
Byers Pike - -	. . .	
Crif-Fell - -	6 23 4	164280
High Pike - -	130 21 55	23976
Saddle Back -	. . .	
Crif-Fell from Wisp Hill 186814,9 feet.		
Crif-Fell - -	20 57 29	169852
Wisp Hill -	65 6 4	66979
Pile on Whin Fell -	. . .	
Wisp Hill from High Pike 212277,5 feet.		
Wisp Hill - -	32 38 47	160458
High Pike - -	48 16 56	115964
Cold Fell Pike -	. . .	
Collier Law from High Pike 229938 feet.		
Collier Law - -	60 25 46	222576
High Pike - -	58 11 10	227816
Pile on Peel Fell -	. . .	
Water Crag from Collier Law 125314,1 feet.		
Water Crag -	28 17 50	136675
Collier Law - -	85 36 44	64981
Kilhope Law -	. . .	
Water Crag - -	29 21 23	167179
Collier Law - -	103 58 31	84458
Durham Cathedral -	. . .	
Botton Head from Wordeslow Hill 176913,7 ft.		
Botton Head -	51 53 39	19174
Wordeslow Hill -	5 13 19	165769
Pile on a Hill near Stokesley	. . .	
Botton Head -	13 34 34	108349
Wordeslow Hill -	19 33 28	75976
Hartlepool Signal Staff	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Botton Head - -	12 57 27	107496
Wordeslow Hill -	18 28 20	76074
Hartlepool Church Tower	. . .	
Wordeslow Hill from Easington Heights 161215,8 feet.		
Wordeslow Hill -	101 54 25	28605
Easington Heights -	9 30 28	169445
Sunderland Lighthouse	. . .	
Wordeslow Hill from Burleigh Moor 130039,1 feet.		
Wordeslow Hill -	113 13 12	28609
Burleigh Moor -	10 32 21	143744
Sunderland Lighthouse	. . .	
Wordeslow Hill -	3 42 50	76072
Burleigh Moor - -	5 12 10	54344
Hartlepool Church Tower	. . .	
Wordeslow Hill -	4 47 49	75978
Burleigh Moor - -	6 40 10	54703
Hartlepool Signal Staff	. . .	
Wordeslow Hill -	131 52 49	41747
Burleigh Moor - -	11 8 8	160938
Windmill on Marston Hill	. . .	
Wordeslow Hill -	129 53 34	44646
Burleigh Moor - -	12 10 56	162329
Signal Staff on Marston Hill - -	. . .	
Burleigh Moor from Brandon Down 150771 feet.		
Burleigh Moor -	22 40 8	102690
Brandon Down - -	35 14 35	68586
Easington Church Tower	. . .	
Burleigh Moor -	36 55 29	162329
Brandon Down - -	77 50 50	99758
Signal Staff on Marston Hill - -	. . .	
Brandon Down from Black Hambleton 187275,6 feet.		
Brandon Down -	31 6 0	49443
Black Hambleton -	9 59 36	147172
Brusselton Folly -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Collier Law from Wordeslow Hill 119613 feet		
	° ′ ″	
Collier Law - -	55 52 39	82633
Wordeslow Hill -	43 2 19	100232
Brusselton Folly -	. . .	
Collier Law - -	13 13 41	84455
Wordeslow Hill -	27 19 36	42098
Durham Cathedral -	. . .	
Collier Law - -	39 37 14	81504
Wordeslow Hill -	42 26 38	77015
Westerton Folly -	. . .	
Collier Law - -	36 47 55	87550
Wordeslow Hill -	46 38 56	72120
Merrington Church Tower	. . .	
Collier Law - -	15 59 59	126825
Wordeslow Hill -	93 45 46	35032
West Boldon Spire -	. . .	
Collier Law - -	87 39 7	7799
Wordeslow Hill -	3 44 15	119548
Pile of Stones on Fatherly Hill - -	. . .	
Collier Law - -	42 53 5	181093
Wordeslow Hill -	96 3 32	123933
Newbiggin Spire -	. . .	
Collier Law - -	34 1 55	153093
Wordeslow Hill -	94 50 34	85988
Seaton Delaval Summer House - -	. . .	
Collier Law from Brandon Down 63150,5 feet.		
Collier Law - -	20 24 17	81505
Brandon Down -	114 58 56	31350
Westerton Folly -	. . .	
Brandon Down from Wordeslow Hill 63478,1 feet.		
Brandon Down -	15 24 58	22627
Wordeslow Hill -	8 12 54	42096
Durham Cathedral -	. . .	
Brandon Down -	81 29 30	162813
Wordeslow Hill -	76 15 15	165771
Pile on a Hill near Stokesley	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Brandon Down -	124 41 44	49445
Wordeslow Hill -	23 55 37	100237
Brusselton Folly -	. . .	
Brandon Down - -	90 48 3	33343
Wordeslow Hill -	27 32 14	72114
Merrington Church Tower	. . .	
Brandon Down - -	23 46 52	27664
Wordeslow Hill -	88 30 26	68581
Easington Church Tower	. . .	
Brandon Down - -	22 43 12	83583
Wordeslow Hill -	112 52 26	35030
West Boldon Spire -	. . .	
Brandon Down - -	29 51 50	105399
Wordeslow Hill -	118 1 0	59449
North Shields Church Tow	. . .	
Brandon Down - -	40 1 28	69210
Wordeslow Hill -	76 45 6	45727
Sherf Hill Beacon Staff	. . .	
Collier Law from Pontop Pike 56824,6 feet.		
Collier Law - -	131 36 48	64983
Pontop Pike -	25 55 1	111160
Kilhope Law - -	. . .	
Collier Law - -	113 13 26	7800
Pontop Pike -	6 49 25	60328
Pile on Fatherly Hill -	. . .	
Wordeslow Hill from Pontop Pike 72621,9 feet.		
Wordeslow Hill -	1 28 39	30889
Pontop Pike - -	1 5 35	41751
Chester le Street Spire	. . .	
Wordeslow Hill -	102 0 59	38093
Pontop Pike - -	24 49 19	88752
Whitburn Spire -	. . .	
Wordeslow Hill - -	76 19 17	123926
Pontop Pike - -	70 12 52	127965
Newbiggin Spire -	. . .	
Wordeslow Hill -	79 10 2	59449
Pontop Pike - -	43 32 21	84150
North Shields Church Tower - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Wordeslow Hill -	37	54	10	45728
Pontop Pike - -	37	33	10	46090
Sherf Hill Beacon Staff	.	.	.	
Wordeslow Hill -	95	1	15	44648
Pontop Pike - -	30	9	50	88515
Signal Staff on Marston Hill - -	.	.	.	
Wordeslow Hill -	93	2	4	41748
Pontop Pike - -	29	7	22	85661
Windmill on Marston Hill	.	.	.	
Collier Law from Rufflaw 169586,5 feet.				
Collier Law - -	26	41	41	153091
Rufflaw - -	64	29	37	76201
Seaton Delaval Summer House - -	.	.	.	
Wordeslow Hill from Rufflaw 152413 feet.				
Wordeslow Hill -	29	16	11	62596
Rufflaw - -	17	22	30	102485
Tynemouth Lighthouse	.	.	.	
Wordeslow Hill -	29	35	3	60548
Rufflaw - -	16	40	51	104141
Flagstaff on Tynemouth Castle - -	.	.	.	
Rufflaw from Alnwick Moor 72588,4 feet.				
Rufflaw - -	48	44	21	62537
Alnwick Moor -	56	18	17	56502
Lighthouse on Coquet Island - -	.	.	.	
Rufflaw - -	2	36	12	75775
Alnwick Moor -	132	5	10	4638
Earl's Mount Obelisk -	.	.	.	
Alnwick Moor -	30	30	26	22957
Rufflaw - -	12	26	41	54080
Beacon Staff on a Hill near Shillbottle -	.	.	.	
Alnwick Moor -	33	29	3	97555
Rufflaw - -	99	15	40	54533
Signal Staff near Newbiggin - -	.	.	.	
Alnwick Moor -	51	34	6	57026
Rufflaw - -	50	15	30	58095
Signal Staff near Hawxley	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Alnwick Moor -	50	9	12	44789
Rufflaw - -	35	0	55	55929
High Tower on Warkworth Castle - -	.	.	.	
Alnwick Moor -	88	5	18	65107
Rufflaw - -	42	44	26	95879
Double Pile on a Hill south-west of Linhope Cataract - -	.	.	.	
Alnwick Moor from Blackheddon 87293,3 feet				
Alnwick Moor -	32	3	18	70903
Blackheddon - -	54	8	25	46432
Flagstaff on Bambrough Castle - -	.	.	.	
Alnwick Moor -	27	31	51	71687
Blackheddon - -	54	23	53	40753
Signal Staff near Bambrough Castle -	.	.	.	
Alnwick Moor -	40	4	4	76444
Blackheddon - -	59	40	2	57011
Lighthouse on the West Staples - -	.	.	.	
Alnwick Moor -	50	26	44	57544
Blackheddon - -	41	13	4	67333
Beadnell Spire - -	.	.	.	
Alnwick Moor -	66	8	45	39445
Blackheddon - -	26	49	29	79944
Embleton Church Tower	.	.	.	
Alnwick Moor -	75	33	33	44548
Blackheddon - -	29	31	18	87551
Dunstanbrough Castle	.	.	.	
Alnwick Moor -	46	53	30	63809
Blackheddon - -	46	50	19	63865
Windmill on Sunderland Point - -	.	.	.	
Alnwick Moor -	54	9	59	57544
Blackheddon - -	41	1	57	71003
Signal Staff near Beadnell	.	.	.	
Alnwick Moor -	59	0	0	43908
Blackheddon - -	30	11	41	74833
Windmill near Newton	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Mordington Hill from Blackheddon 68399 feet.		
	° ′ ″	
Mordington Hill -	20 24 57	103940
Blackheddon -	128 39 56	46436
Flagstaff on Bambrough Castle - -	. . .	
Mordington Hill -	18 48 58	99009
Blackheddon - -	128 24 34	40753
Signal Staff near Bambrough Castle -	. . .	
Mordington Hill -		
Blackheddon - -	25 37 9	110426
Lighthouse on the West Staples - -	123 8 17	57021
	. . .	
Mordington Hill -	21 13 27	122637
Blackheddon - -	135 57 57	63872
Windmill near Sunderland Point - -	. . .	
Mordington Hill -	25 21 57	110832
Blackheddon - -	123 46 7	57117
Flagstaff on the West Staples - -	. . .	
Mordington Hill -	29 37 47	112778
Blackheddon - -	117 59 18	63141
Low Building on one of the Staples - -	. . .	
Mordington Hill -	30 8 3	111679
Blackheddon - -	116 41 26	62752
East Staples Lighthouse	. . .	
Mordington Hill -	21 24 35	79483
Blackheddon - -	100 55 24	29550
Beacon Staff at Old Law	. .	
Mordington Hill -	23 59 42	77753
Blackheddon - -	94 45 48	31728
Flagstaff on Holy Island Castle - -	. . .	
Mordington Hill -	22 18 23	65096
Blackheddon - -	71 41 30	26022
Windmill on Holy Island	. . .	
Mordington Hill -	4 16 50	63428
Blackheddon - -	42 36 2	6994
Kyloe Church Tower -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Mordington Hill -	7 49 54	60344
Blackheddon - -	43 39 17	11911
Lowick Church Tower -	. . .	
Mordington Hill -	35 23 11	119019
Blackheddon - -	112 34 19	74658
Rock on the West End of the Cheviot -	. . .	
Mordington Hill -	10 12 34	42187
Blackheddon - -	15 32 44	27901
Cheswick Windmill -	. . .	
Mordington Hill -	136 55 32	43723
Blackheddon - -	16 34 23	104686
Warlaw Bank Barrow	. . .	
Mordington Hill -	52 55 56	35458
Blackheddon - -	31 1 59	54881
Norham Castle -	. . .	
Mordington Hill -	9 50 2	38081
Blackheddon - -	11 53 40	31555
North Scramerston Windmill - -	. . .	
Mordington Hill -	7 26 4	36080
Blackheddon - -	8 8 38	32955
South Scramerston Windmill - -	. . .	
Mordington Hill -	10 2 36	32997
Blackheddon - -	9 6 16	36366
Middle Scramerston Windmill - -	. . .	
Mordington Hill -	83 13 12	97438
Blackheddon - -	59 32 36	112245
Southmost Turret of Hume Castle - -	. . .	
Mordington Hill -	11 20 15	37762
Blackheddon - -	13 22 37	32161
Green's Windmill -	. . .	
Mordington Hill -	130 22 10	48566
Blackheddon - -	20 19 56	106491
Buncle Edge Clump -	. . .	
Mordington Hill -	94 49 47	35647
Blackheddon - -	26 26 58	79748
Blackadder Tower -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distance in Feet.
Mordington Hill -	80 45 2	32341
Blackheddon -	26 47 44	70808
Dyket Head Windmill		
Mordington Hill -	66 24 3	31943
Blackheddon -	27 45 3	62850
Horndean Windmill -		
Mordington Hill -	114 44 36	25425
Blackheddon -	16 17 7	82345
Harelaw Barn -		
Mordington Hill -	104 17 48	56861
Blackheddon -	33 45 27	99159
Dunse Spire - -		
Mordington Hill -	67 4 25	52565
Blackheddon -	45 17 29	68120
South Gable of Simprin Barn - -		
Mordington Hill -	60 47 28	38355
Blackheddon -	33 58 25	59909
Lady Kirk Spire -		
Mordington Hill -	94 49 35	34449
Blackheddon -	30 57 21	34015
Whitelaw Windmill -		
Mordington Hill -	84 17	40773
Blackheddon -	32 14	76061
Longridge Windmill -		
Mordington Hill -	59 41 54	34380
Blackheddon -	30 10 30	59055
New Lady Kirk Windmill		
Lumsdane Hill from Blackheddon 113573,5 ft		
Lumsdane Hill -	19 46 17	156974
Blackheddon - -	122 44 39	63131
Low Building on one of the Staples - -	.	
Lumsdane Hill -	20 5 50	155796
Blackheddon - -	121 26 47	62750
East Staples Lighthouse	. . .	
Lumsdane Hill -	27 31 24	153827
Blackheddon - -	107 48 55	74665
Rock on the West End of the Cheviot -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Lumsdane Hill -	10	24143
Blackheddon -	11 48 59	104682
Warlaw Bank Barrow		
Lumsdane Hill -	20 40 42	68799
Blackheddon -	26 16 35	54877
Norham Castle -		
Lumsdane Hill -	68 57 16	30[illegible]
Blackheddon - -	15 34 36	106402
Buncle Edge Clump -		
Sayrs Law from Blackheddon 170637,4 feet.		
Sayrs Law	9 43 16	93818
Blackheddon -	11 27 24	79755
Blackadder Tower	. . .	
Sayrs Law -	14 48 1	140121
Blackheddon	45 30 27	50136
Berwick upon Tweed Spire	. . .	
Sayrs Law	21 54 3	119591
Blackheddon	36 46 39	74506
Signal Staff on Habchester Hill	. . .	
Lumsdane Hill from Mordington Hill 45764,1 ft		
Lumsdane Hill	27 47 45	68793
Mordington Hill	115 11 36	35452
Norham Castle		
Lumsdane Hill -	33 42 0	36781
Mordington Hill	53 23 8	25424
Harelaw Barn	. .	
Lumsdane Hill	88 26 6	44721
Mordington Hill	45 6 14	63108
Cockburn Law -		
Lumsdane Hill -	24 9 41	37104
Mordington Hill	51 53 35	19301
Edington Hill Thrashing Machine -		
Lumsdane Hill -	98 39 33	92443
Mordington Hill	56 51 12	109151
Twinlaw Cairns	. . .	
Sayrs Law from Mordington Hill 124008,6 ft.		
Sayrs Law	34 47 40	26715
Mordington Hill -	8 29 40	103202
Spartleton Hill Staff -	. . .	

Names of Stations and intersected Objects	Angles for Computation	Distances in Feet	Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet
	° ′ ″			° ′ ″	
Haddon Beacon	48 51 46	57220	Brompton Ralph - -	8 33 45	81251
Sampford -	59 11 40	50173	Sampford - -	152 5 23	25843
Newts Down	71 56 34		Kentisbeare - -	19 20 52	
Bagborough -	33 21 11	102895	Sampford - -	24 28 0	24321
Haddon Beacon	101 0 41	57223	Kentisbeare -	69 47 35	10734
Newts Down -	32 20 38		Gaddon Hill - -	85 44 19	
Haddon Beacon	3 8 21	76622	Sampford - -	23 25 31	5911
Newts Down -	167 43 37	19737	Gaddon Hill -	7 5 19	19013
Christcross -	9 8		Culmstock - -	149 29 10	
Newts Down -	170 20 0	50165	Culmstock - -	21 52 41	19933
Christcross -	13 50 59	62499	Gaddon Hill - -	73 30 5	10737
Sampford -	15 49 1		Kentisbeare - -	69 29 11	
Newts Down -	89 27 15	41 74	Sampford - -	2 30 43	32337
Christcross -	64 46 45	45400	Kentisbeare - -	160 54 37	5031
Kentisbeare -	25 46 0		Wherry Farm - -	10 25 45	
Newts Down -	24 15 51	64448	Sampford - -	7 10 25	34017
Christcross -	145 49 56	47157	Wherry Farm -	142 23 13	2115
Whitestone -	9 54 13		Upcot Pen - -	35 20 23	
Staple Hill -	78 7 42	26558	Sampford - -	20 25 37	47920
Castlincroach	79 6 49	26466	Upcot Pen - -	123 1 16	10947
Yartcombe -	22 45 29		Woolford Lodge Staff	30 33 7	
Staple Hill -	23 37 32	46747	Upcot Pen - -	28 3 38	12709
Yartcombe -	139 58 27	24815	Woolford Lodge -	31 23 59	10504
Dumpdon -	25 24		Hembury Fort -	117 32 23	
Bagborough -	20 10 4	102270	Hembury Fort - -	66 44 50	21536
Staple Hill -	131 1 27	46737	Woolford Lodge - -	83 59 55	19905
Dumpdon -	28 48 29		North Ottery Moor -	29 15 15	
Dumpdon -	52 50 18	25508	Hembury Fort	17 8 16	30[illegible]39
Yartcombe -	65 10 25	22398	North Ottery Moor -	143 41 57	19331
Harner Hill -	61 59 17		South Ottery Moor -	19 9 52	
Dumpdon -	9 51 6	16255	North Ottery Moor -	53 21 46	23850
Harner Hill -	10 19 48	9892	South Ottery Moor	75 5 0	19806
Stockland -	53 49 6		West Ottery Moor -	51 33 14	
Dumpdon -	5 52 47	24599	Whitestone - -	113 59 28	49762
Harner Hill -	67 20 38	2712	Christcross - -	54 0 15	81291
Beacon Hill -	106 38 37		Obelisk on Haldon -	32 0 17	
Dumpdon -	150 33 12	10528	Whitestone -	11 15 12	31693
Harner Hill -	8 29 21	35060	Haldon Old Station -	150 25 30	19675
Combe-Rawleigh	20 57 27		Haldon Obelisk -	18 19 18	

Names of Stations and intersected Objects.	Angles for Computation ° ′ ″	Distances in Feet
Whitestone -	10 18 56	39252
Haldon Old Station	134 34 18	9867
Haldon New Station	35 6 4[illegible]	
Haldon Old Station	39 35 40	34430
Haldon New Station	127 12 46	27554
Little Haldon -	13 11 34	
Haldon New Station	28 47 14	29532
Whitestone -	46 46 1	19519
Exeter Cathedral -	104 26 45	
Haldon Old Station	96 43 8	26700
Haldon New Station	63 53 58	29528
Exeter Cathedral -	19 22 54	

Names of Stations and intersected Objects.	Angles for Computation ° ′	Distances in Feet.
Whitestone -	37 48	22294
Christcross - -	24 49 12	32551
Rock Barton -	117 22 48	
Haldon New Station	22 7 48	10540
Little Haldon -	12 34 57	18227
Haldon Obelisk -	145 17 1	
Haldon Obelisk -	18 58 50	18854
Little Haldon -	86 16 40	6145
Holcomb Down -	74 44 30	

ART. II. *First Class of Secondary Triangles for the Survey of the North of Devon. Plate* III.

The Sides of the Great Triangles used as Base Lines in calculating the Sides of the Secondary Triangles, are the following:

Distance from Black Down to -	St. Stephen's Down	62508 feet.
	Kit Hill - -	53128
	Butterton Hill - -	89146
Cawsand Beacon to	Rippin Tor -	64020
	Great Haldon -	84116
Rippin Tor to -	Great Haldon -	55628
Dunkery Beacon from Haddon Beacon -		48439

Black Down -	66 40 56	48290
St. Stephen's Down	45 34 40	62162
Bradbury Castle	67 35 24	
Bradbury Castle	19 59 11	94758
St. Stephen's Down	129 42 2	42095
Warbstow Beacon	30 18 47	
Kit Hill -	61 47 48	100969
Black Down -	86 31 15	89146
Butterton Hill	31 40 57	
Cawsand Beacon	31 [illegible] 20	108495
Rippin Tor -	117 [illegible] 8	62951
Butterton Hill -	31 35 32	
Cawsand Beacon	86 3 1[illegible]	55012
Rippin Tor -	42 49 51	2048
Black Down -	51 6 59	

Black Down	30 56 8	55913
Butterton Hill	94 1 1	108495
Cawsand Beacon	55 2 51	
Black Down	59 40 9	55903
Bradbury Castle	67 25 34	52255
Cawsand Beacon	52 54 17	
Cawsand Beacon	41 23 3[illegible]	84116
Rippin Tor	89 3 17	55628
Great Haldon	49 33 5	
Rippin Tor -	4 33 1[illegible]	54787
Great Haldon	76 52 4	4466
Pall's Tower	98 34 1	
Cawsand Beacon	88 10 13	82218
Bradbury Castle	58 52 1[illegible]	96000
Beacon Moor	32 57 3[illegible]	

Names of Stations and intersected Objects.	Observed Angles	Distances in Feet.	Names of Stations and intersected Objects.	Observed Angles.	
	° ′ ″			° ′ ″	
Cawsand Beacon -	90 3 32	80171	St. Stephens -	66 28 33	64720
Beacon Moor -	44 14 37	114895	Bradbury Castle	58 31 27	69579
Palk's Tower -	45 41 31		Pancras Week -	55 0 0	
Cawsand Beacon -	63 52 50	68487	St. Stephen's -	63 13 21	64733
Great Haldon -	48 43 50	81815	Warbstow Beacon	77 23 23	59224
West Morchard -	67 23 20		Pancras Week -	39 23 16	
Great Haldon -	38 57	78537	St. Stephen's -	72 36 33	56995
Cawsand Beacon -	64 58	54497	Bradbury Castle	50 19 3	70673
Mary Down -	76 3		Bridgerule -	57 4 24	
Bradbury Castle -	41 24 36	70231	St. Stephen's	57 5 19	57000
Beacon Moor -	47 0 22	83522	Warbstow Beacon	76 54 41	49128
Spreyton Steeple -	91 35		Bridgerule -	46 0 0	
Cawsand Beacon -	42 18 15	50492	St. Stephen's -	54 53 59	85295
Bradbury Castle -	66 18 30	37112	Warbstow Beacon	95 41 14	70129
Hatherleigh -	71 23 18		Kilkhampton -	29 24 47	
Bradbury Castle -	17 27	70256	Warbstow Beacon	40 54 15	70129
Cawsand Beacon -	125 0 30	25735	Beacon Moor, H.	64 25 50	50900
Spreyton Steeple -	37 31 55		Kilkhampton	74 59 54	
Bradbury Castle -	51 21 47	63475	Warbstow Beacon	62 4 54	64387
Cawsand Beacon -	35		St. Stephen's	77 37 15	58573
Winkley -	52 38		Holsworthy Steeple	39 41 13	
Bradbury Castle -	4 30 26	63476	St. Stephen's	13 26 28	58573
Beacon Moor -	8 50 5	35098	Beacon Moor, H.	72 29 53	14276
Winkley - -	166 49 29		Holsworthy -	94 3 39	
Bradbury Castle -	36 40 59	86419	Warbstow Beacon	67 14 8	54822
Beacon Moor - -	62 39 30	58120	St. Stephen's	67 33 18	54695
Belleview - -	80 39 41		Pyeworthy	45 12 34	
Bradbury Castle -	18 32 27	65884	St. Stephen's	23 30 6	54695
Belleview - -	41 10	31823	Beacon Moor	63 1 9	24475
Langtree - -	20 17 13		Pyworthy	93 28 45	
Bradbury Castle -	34 33	29297	St. Stephen's	62 8 36	54682
Hatherleigh - -	51 59 53	21093	Bradbury Castle	52 51 51	60644
High Hampton Steeple	93 26 16		Pyworthy -	64 59 33	
Bradbury Castle -	69 29 15	46845	St. Stephen's -	14 23 38	64738
St. Stephens -	38 38 34	61262	Holsworthy -	104 24 10	16615
Beacon Moor Holsworthy	71 52		Pancras Week -	61 12 12	
Warbstow Beacon -	54 46 58	74975	Pancras Week	104 13 40	33015
St. Stephen's - -	91 4 0	61262	Holsworthy	52 18 20	40444
Beacon Moor, Holsworthy	34 9 2		Week St. Mary	23 28 0	

Names of Stations and intersected Objects.	Observed Angles	Distances in feet.
Pancras Week - -	63° 11′ 50″	23014
Week St. Mary -	42 13 10	30568
Stamford - -	74 35 0	
Bradbury Castle -	70 53 58	69577
Belleview - -	45 55 40	91511
Pancras Week - -	63 10 22	
Dunke[illegible]on - -	79 3 5	47309
Haddon [illegible]on -	49 39 18	60943
North Molton Ridge	51 17 37	
Dunkery Beacon -	22 34 57	54421
North Molton Ridge	60 4 14	21063
Span Head - -	59 23 49	
Span Head - -	22 54 11	79820
North Molton Ridge	149 22 0	60951
Haddon Beacon - -	7 13 44	
North Molton Ridge	87 10 7	30357
Span Head - -	57 10 0	30083
South Molton - -	35 39 [illegible]	
Span Head - -	57 58 15	60131
North Molton Ridge	104 54 21	60039
Beacon Moor Chumleigh	17 7 24	
North Molton Ridge	105 43 34	60640
Haddon Beacon -	37 1 41	90325
Beacon Moor Ch. -	37 14 42	
Span Head - -	143 30 30	24311
Beacon Moor - -	9 15 35	89847
Paracombe - -	27 13 49	
North Molton Ridge	11 31 8	44584
Span Head - -	158 31 0	24312
Paracombe - -	9 57 [illegible]	
North Molton Ridge	62 27 50	65374
Paracombe - -	76 5 10	59721
Cotten Hill - -	41 27 0	
Span Head - -	111 27 33	54607
North Molton Ridge -	70 56 42	65371
Cotten Hill - -	17 25 45	
Beacon Moor - -	50 6 41	57329
Span Head - -	53 39 18	54613
Cotten Hill - -	76 14 [illegible]	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Beacon Moor - -	81° 56′	53112
Span Head - -	43 19	83849
Belleview - -	54 43	
Span Head - -	29 45 10	76552
North Molton Ridge -	140 4 36	59195
Witheridge Spire -	10 10 14	
Beacon Moor - -	31 50 26	57328
Cotten Hill - -	75 26 37	31674
Belleview - - -	72 42 57	
North Molton Ridge -	36 12 55	65326
South Molton Steeple -	120 5	41644
Cotten Hill - -	23 41 14	
South Molton	28 0 22	63153
Cotton Hill	110 32 38	31663
Belleview - -	41 27	
Beacon Moor - -	121 4 34	114917
North Molton Ridge -	39 22 0	155176
Palk's Tower - -	19 33 26	
Beacon Moor - -	83 49 38	114918
Haddon Beacon	53 29 29	112140
Palk's Tower - -	42 40 53	
North Molton Ridge -	48 [illegible] 15	107599
Beacon Moor - -	102 7 0	70505
Christetow - -	33 34 36	
North Molton Ridge -	79 53 9	66617
Beacon Moor - -	85 1 25	33319
Tiverton Steeple -	67 [illegible] 26	
North Molton Ridge -	26 9 [illegible]	81924
Beacon Moor - -	109 [illegible] 40	30342
West Molcheard -	44 12 37	
North Molton Ridge -	31 32 27	73647
Beacon Moor -	83 52 43	49150
Paddington - -	54 54 50	
Cotten Hill - -	93 20 0	22928
[illegible] - - -	2[illegible] [illegible] [illegible]	19653
Heanton Steeple -	58 [illegible] 10	
Cotton Hill - -	60 59 0	32919
Bellview - - -	45 30 0	46064
Heanton - -	43 24 0	

Names of Stations and intersected Objects	Angles for Computation	Distances in Feet	Names of Stations and intersected Objects	Angles for Computation	Distances in Feet.
Heanton -	34 57	10405	Span Head	79 16 40	96424
Cotton Hill -	13 43 40	25117	Parracombe	86 9 7	94255
Fremington Steeple	131 19 20		Northam	14 34 13	
Beacon Moor -	126 45	38346	Belleview	100 15 30	34971
Span Head -	18 27	97067	Span Head	20 54 30	96426
West Morchard	34 47 40		Northam	58 50 0	
Fremington -	93 2	28430	Belleview	44 35 [illegible]	44964
Cotton Hill -	46 50 30	38920	Northam	84 4[illegible]	31700
Swinham Down -	40 7 30		Parkham	50 45 0	
Cotton Hill -	34 30 36	60972	Parkham	44 39	28201
Parracombe -	74 39 16	35821	Belleview	58 31	31825
Hangman Hill -	70 50 8		Laugtree	96 50	
Hangman Hill -	34 42 40	38566	Cotton Hill	40 53 0	27052
Parracombe -	79 22 50	22344	Belleview	57 38	20998
Bratton Down -	65 54 30		Harwood	81 24	
Bratton Down -	24 4 0	35831	Belleview	69 17 0	44970
Hangman Hill -	65 11 0	15739	Harwood	83 6 0	42370
Berry Down -	87 45 0		Parkham	27 37 0	
Hangman Hill -	13 33	851			
Berry Down -	147 11	176			
Hewish Down -	19 16				

ART. III. *First Class of Secondary Triangles for the Survey of Dartmoor Forest, and the South of Devon. Plate* III.

The Sides of the Great Triangles used as Base Lines in this Survey are the following, viz.

Little Haldon to	Rippin Tor	55 928 feet.
	Furland	79776
Rippin Tor to	Butterton Hill	62951
	Cawsand Beacon -	63709
Bolt Head to	Butterton Hill -	72479
Rippin Tor to	Sir R Palk's Tower, Haldon	54788
	Chudleigh Steeple -	41471

Rippin Tor Old Station	106	45	0	233	Rippin Tor Old Station	66	15	0	232
Little Haldon	0	13	20	56035	Palk's Tower -	0	13	20	54695
Rippin Tor New Station	73	1	20		Rippin Tor New Station	113	31	40	
Rippin Tor New Station	44	8	20	32574	Rippin Tor New Station	84	44	10	32570
Denbury - -	101	5	40	39781	Palk's Tower - -	32	5	50	61037
Little Haldon - -	34	46	0		Denbury - -	63	10	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Rippon Tor Old Station	87 54	233
Chudleigh Steeple -	0 19	41463
Rippon Tor New Station	91 46 42	
Rippon Tor New Station	63 0 10	32574
Chudleigh Steeple -	47 24 50	39421
Denbury - -	69 35	
Furland - -	71 56 33	68727
Little Haldon -	51 46 15	83180
Brent Ruins - -	56 17	
Rippon Tor New Station	106 15	47739
Little Haldon - -	33 26	83181
Brent Ruins - -	40 18 5	
Rippon Tor - -	62 1 30	32567
Brent Ruins - -	41 32 30	43371
Denbury - - -	76 26	
Rippon Tor Old Station	135 34 0	232
Butterton Hill - -	0 8 50	63117
Rippon Tor New Station	44 17 10	
Rippon Tor New Station	32 47 36	71556
Butterton Hill -	85 6 14	38681
Horner Down - -	62 6 10	
Horner Down - -	24 26 40	50847
Rippon Tor - -	40 14 15	32573
Denbury - -	115 19 5	
Horner Down - -	142 23 25	8438
Butterton Hill -	6 28 35	45656
Morleigh Camp -	31 8 0	
Rippon Tor - -	24 30	52757
Denbury - -	125 12	26774
Totness Steeple -	30 18	
Totness - -	64 40 20	19141
Denbury - -	42 57 0	25391
Marldon Beacon -	72 22 40	
Totness - - -	26 52 20	17172
Marldon Beacon -	63 40 30	8657
Willman Hill - -	89 20 10	
Horner Down - -	80 54 30	31270
Butterton Hill - -	42 27 50	45735
Church Stowe Steeple	56 37 40	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Morleigh Camp -	72 10	28227
Butterton Hill -	35 58 5	45737
Church Stowe Steeple -	71 51 1	
Horner Down -	104 50 3	29616
Rippon Tor - -	17 40 2	81566
Higher East Close -	57 29 1	
Morleigh Camp -	111 28 3	25610
Horner Down -	50 40 1	21287
Higher East Close -	17 51 2	
Horner Down -	60 46 5	39520
Butterton Hill -	60 39 3	39566
Bigbury Spire -	58 33 4	
Church Stowe -	31 0	27465
Marlborough -	103 46	14564
Portlemouth -	45 14	
Church Stowe -	23 7 5	16380
Portlemouth -	27 25	13974
Charleton Steeple -	129 27 10	
Church Stowe -	66 25 5	14702
Portlemouth - -	31 58 2	25449
Buckland, Tout Saints	81 35 50	
Church Stowe -	29 39 10	8729
Portlemouth -	12 15 20	20349
Kingsbridge Spire	38 5 30	
Portlemouth -	40 15 0	18899
Church Stowe -	48 6 50	17867
Marlborough Station -	96 38 10	
Marlborough Station -	65 22 20	26664
Portlemouth - -	72 11 2	25459
Buckland, Tout Saints	42 26 20	
Marlborough Station -	73 5 50	13837
Portlemouth -	41 40 10	19914
West Allington Steeple	65 14 0	
West Allington -	104 54 50	9149
Marlborough -	29 18 10	18657
Charleton Steeple -	45 47 0	
Portlemouth - -	90 33 10	11957
Church Stowe -	23 26 10	30063
South Pool Station -	66 0 40	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Portlemouth - -	10 57 10	11159
South Pool Station -	64 42 50	2345
South Pool Steeple	104 20 0	
South Pool Station -	69 58 20	3089
Portlemouth - -	14 54 40	11279
Chivelstone Station -	95 7 0	
Chivelstone Station -	12 0 10	13814
Portlemouth - -	127 51 [illegible]	3638
Salcombe Chapel -	40 8 50	
Portlemouth - -	93 14 30	20342
Chivelstone Station -	58 32 0	23811
Kingsbridge Spire -	28 13 20	
Wallaton Cross -	54 32 50	9973
Morleigh - -	56 0 50	9798
Black-Auton Steeple	69 26 20	
Black Down -	36 4 50	12182
Church Stowe - -	34 [illegible] 50	12699
Woodleigh Steeple -	109 31 20	
Church Stowe - -	23 35 0	[illegible]
Woodleigh - -	42 42 0	[illegible]
Loddesweil Steeple -	113 [illegible] 0	
Marlborough Station -	67 43 2	[illegible]
Beacon Hill -	69 21 3[illegible]	[illegible]
Church Stowe Steeple -	42 55 1	
Marlborough Station -	4 4[illegible] 20	1042[illegible]
Beacon Hill - -	17 59 5[illegible]	[illegible]748
Churlestone Steeple -	17[illegible] [illegible] 5[illegible]	
Marlborough Station -	[illegible]6 24 1[illegible]	1518
Beacon Hill - -	4 [illegible] 30	[illegible]314
South Huish -	139 13 20	
Butterton Hill - -	8 9 24	17629
Holland Hill - -	72 46 50	2619
Beacon Park Station -	99 3 46	
Holland Hill - -	124 [illegible] 0	20405
Beacon Park - -	[illegible] 36 30	[illegible]006
Cornwood Steeple -	5 [illegible] 30	
Holland Hill - -	20 20 30	3355
Beacon Park - -	114 8 20	1280
[illegible]nington Steeple -	4[illegible] [illegible] [illegible]	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Butterton Hill - -	110 53 40	23356
East Down Beacon -	59 22 0	25359
Modbury Spire - -	9 44 20	
Holland Hill - -	102 0 0	11314
Butterton Hill - -	28 16 14	23365
Modbury Spire - -	49 43 40	
Butterton Hill -	74 19 0	12020
East Beacon - -	83 23 0	11650
Ugborough Spire -	22 18 0	
H[illegible]nd Hill - -	39 41 0	17037
Butterton Hill -	64 19 24	12021
Ugborough Spire -	75 29 36	
Butterton Hill -	11 50 20	19635
East Beacon -	[illegible] 27 [illegible]	16501
North Hush	10 11 [illegible]	
Morleigh -	54 58 [illegible]	[illegible]
Butterton Hill -	[illegible] 10 5[illegible]	39577
Bigbury	7[illegible] [illegible]0 5	
Morleigh - -	89 38 3[illegible]	15107
Butterton Hill -	34 49 50	63979
Marlboro' - -	15 31 40	
Moorwood [illegible] -	91 31 30	49978
Butterton Hill -	51 18 10	64006
Marlboro' -	37 9 50	
Butterton Hill -	16 27 50	36175
[illegible] - -	64 34 20	11352
Ki[illegible] -	98 57 50	
Morleigh -	108 18 20	44626
Butterton Hill -	3[illegible] [illegible] 30	73183
Portlemouth - -	36 19 10	
Butterton Hill -	35 15 30	73175
Kingston Steeple -	119 10 0	48374
Portlemouth - -	25 [illegible] 30	
Butterton Hill -	16 1 40	41189
Bigbury -	90 6 30	11372
Station above Kingston	73 51 50	
Station above Kingston	121 14 10	32074
Butterton Hill -	25 22 30	63996
Marlboro' - -	33 23 20	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in feet.
Station above Kingston	114 18 40	45858	Butterton Hill -	94 27 10	18219
Butterton Hill -	34 49 40	73176	Horner Down -	24 22 20	44017
Portlemouth -	30 51 40		Holland Hill - -	61 10 3	
Bolt Head - -	19 26 20	82246	Butterton Hill -	59 19 [illegible]	18226
Butterton Hill -	100 30 40	27839	Hemerdon Ball -	40 12 5	24277
Hemerdon Ball -	60 3 0		Holland Hill - -	80 28 [illegible]	
Hemerdon Ball -	115 11 0	13545	Butterton Hill -	0 8 50	63117
Butterton Hill -	11 13 40	39720	Rippon Tor Old Station	135 34 [illegible]	232
Boringdon - -	23 35 20		Rippon Tor New Station	11 17 10	
[illegible] Hill -	31 28 [illegible]	[illegible]	East Beacon - -	136 [illegible]	4599
[illegible] - -	101 11 30	[illegible]	Butterton Hill -	40 2[illegible]	50087
Gonnor Down -	47 20 [illegible]		Rippon Tor New Station	[illegible] 40	
[illegible] Hill -	50 23 5[illegible]	52994	Station above Pen Beacon	82 25 0	27834
[illegible] - -	51 56 10	41239	Hemerdon Ball	58 52 10	3223
[illegible] Down -	[illegible] 10 [illegible]		East Beacon	38 42 50	
[illegible] - -		[illegible]	Butterton Hill	161 29 50	14591
Butterton Hill	31	37639	Hemerdon Ball	2 35 30	32226
Station South of Yealm			East Beacon	15 54 40	
Boringdon			[illegible] -	15 12 20	34229
Hemerdon Ball -			[illegible] Tor -	46 47 40	12317
Newton Down -			[illegible] -		
Butterton Hill -			Rippon Tor -	91 37 [illegible]	[illegible]
Hemerdon Ball			Cox's Tower -	21 26 0	50417
Station above Pen Beacon	73 57 [illegible]		Hamilton Down	66 57 [illegible]	
Hemerdon Ball -	153 [illegible]	[illegible]	Rippon Tor	66 34 0	21726
Station above Pen Beacon	10[illegible]	[illegible]	East Beacon -	79 33 0	[illegible]
Boringdon - -	1[illegible]		Hamilton Down	33 53 0	
Boringdon - -	133 5 [illegible]	[illegible]	Cawsand Beacon -	0 3 57	63799
Station above Pen Beacon	1[illegible] 5[illegible]	49[illegible]	Rippon Tor Old Station	18 2[illegible] 33	233
Newton Down -	2[illegible] [illegible] 10		Rippon Tor New Station	161 35 30	
Boringdon - -	2[illegible] [illegible]		Rippon Tor New Station	0 34 40	63615
Newton Down -	88 [illegible]	[illegible]	Cawsand Beacon -	73 43 30	[illegible]
Station South of Yealm			Cawsand Beacon Barrow	105 41 50	
Boringdon - -	[illegible]	[illegible]	Rippon Tor New Station	92 7 50	35006
Gonnor Down - -	2[illegible] [illegible] 0	[illegible]	Cawsand Beacon Barrow	28 43 10	74018
Newton Down -	151 57 0		Ryder's Hill - -	59 9 [illegible]	
Gonnor Down -	103 38 0	4733	Rippon Tor New Station	29 33 30	54024
Newton Down -	26 33 30	10289	Cawsand Beacon Barrow	58 2 30	31400
West Down - -	49 48 30		Cut Hill	92 24 0	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet
	° ′ ″	
Rippon Tor New Station	62 38 30	35574
Cut Hill - -	39 59 10	49167
Ryder's Hill - -	77 22 20	
Rippon Tor - -	32 15 50	55202
Ryder's Hill -	110 35 40	31480
Hessary Tor - -	37 8 30	
Rippon Tor - -	30 23 30	54048
Hessary Tor - -	72 34 30	28658
Cut Hill -	77 2 0	
Ryder's Hill - -	33 17 30	49175
Hessary Tor - -	109 37 30	28657
Cut Hill - -	37 5 0	
Cut Hill - -	36 29 30	25005
Cawsand Beacon Barrow	52 45 10	18681
Tes Tor - -	90 45 20	
Tes Tor - -	1 11 10	19220
Cawsand Beacon Barrow	143 21 10	666
Cawsand Beacon -	35 27 40	
Cawsand Beacon -	43 16 0	15442
Tes Tor - -	53 1 40	13253
Oakhampton Park -	83 42 20	
Cawsand Beacon - -	102 27 0	19979
Tes Tor - -	39 40 0	30564
Castor Rock -	37 53 0	
Kit Hill Old Station -	38 3 20	181
Brent Tor - -	0 8 52	43279
Kit Hill New Station -	141 47 48	
Black Down -	0 7 46	53004
Kit Hill Old Station -	43 58 4	180
Kit Hill New Station -	135 54 10	
Black Down - -	81 28 0	18577
Kit Hill New Station	20 5 0	53500
Cocks Tor -	78 27 0	
St. Stephen's Down -	5 37 20	53167
Black Down - -	28 29 29	10919
Brent Tor - -	145 53 11	

Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Black Down - -	105 51 30	18584
Brent Tor - -	48 10 30	23989
Cocks Tor -	25 58 0	
Kit Hill New Station -	26 4 0	53497
Brent Tor - -	101 29 0	23987
Cocks Tor - -	52 27 0	
Cut Hill -	33 1 30	30882
Hessary Tor -	80 40 20	17056
Cocks Tor - -	66 18 10	
Ryder's Hill - -	27 34 0	33941
Hessary Tor - -	84 56 0	15708
Leather Tor - -	67 30 0	
Hessary Tor -	84 41 30	15778
Cocks Tor - -	45 12 30	22137
Leather Tor - -	50 6 0	
Cocks Tor - -	140 58 0	18577
Hessary Tor - -	20 23 0	33589
Black Down - -	18 39 0	
Black Down - -	53 27 20	34732
Cocks Tor - -	94 18 20	27983
Morwell Down -	32 14 20	
Black Down - -	71 58 10	34734
Hessary Tor -	55 20 10	40155
Morwell Down -	52 41 40	
Cocks Tor - -	48 28 0	60811
Kit Hill - -	73 51 10	47391
St. Budeaux - -	57 40 50	
Cocks Tor - -	95 26 0	22150
Kit Hill - -	21 38 0	59811
Leather Tor -	62 56 0	
Kit Hill - -	52 7 0	47394
Leather Tor - -	50 37 0	48397
St. Budeaux - -	77 16 0	

ART. IV. *Second Class of Triangles for the interior Survey of Part of Somersetshire, of Devonshire, and Part of Cornwall. Plate* III.

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Huntspill Steeple -	14	4	0	30206
Brent Knoll - -	136	32	0	10672
Lympsham Steeple -	29	24	0	
Huntspill Steeple -	42	14	0	23214
Brent Knoll - -	74	22	0	16203
Berrow Steeple -	63	24	0	
Huntspill Steeple -	121	43	0	23198
Cannington -	27	47	0	42336
Berrow Steeple - -	30	30	0	
Huntspill Steeple -	33	58	0	12917
Brent Knoll - -	33	39	0	13024
Burnham Steeple -	112	23	0	
Huntspill Steeple -	129	59	0	12918
Cannington - -	16	26	0	34989
Burnham Steeple -	33	35	0	
Huntspill Steeple -	39	26	0	26110
Brent Knoll - -	85	13	0	16643
Mark Steeple - -	55	21	0	
Huntspill Steeple -	156	36	0	26125
Cannington -	11	54	0	50317
Mark Steeple -	11	30	0	
Huntspill Steeple -	154	22	0	9350
Brent Knoll - -	7	41	0	30255
Pawlet Steeple -	17	57	0	
Huntspill Steeple -	41	40	0	9350
Cannington - -	18	47	0	19303
Pawlet Steeple -	119	33	0	
Huntspill Steeple -	72	3	0	13354
Cannington - -	31	0	0	24667
Puriton Steeple -	76	57	0	
Huntspill Steeple -	124	0	0	13342
Brent Knoll -	20	52	0	31052
Puriton Steeple -	35	8	0	
Huntspill Steeple -	122	29	0	16405
Brent Knoll -	24	30	0	33370
Puriton Mill -	33	1	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Huntspill Steeple -	73	34	0	16414
Cannington - -	37	22	0	25939
Puriton Mill - -	69	4	0	
Huntspill Steeple -	98	7	0	18938
Brent Knoll - -	37	44	0	30636
Woolavington Steeple -	44	9	0	
Huntspill Steeple -	97	57	0	18939
Cannington - -	33	56	0	33601
Woolavington Steeple	48	7	0	
Huntspill Steeple -	10	16	0	45274
Cannington - -	157	18	0	20910
Over Stowey - -	12	26	0	
Huntspill Steeple -	12	11	0	40231
Cannington -	148	53	0	16429
Nether Stowey -	18	56	0	
Huntspill Steeple -	14	0	0	19904
Cannington -	39	0	0	7651
Chimney on the north side of Mr. Evered's House	127	0	0	
Huntspill Steeple -	149	58	0	19892
Brent Knoll - -	14	24	0	40034
Chimney on the north side of Mr. Evered's House	15	38	0	
Quantock - - -	29	39	25	28469
Cannington - -	63	41	33	15714
Stoke Courcy Steeple -	86	39	2	
Quantock - -	33	5	1	28469
Danesbury - -	124	36	9	18880
Stoke Courcy Steeple -	22	18	50	
Huntspill Steeple - -	42	46	0	41126
Cannington - -	100	1	0	28357
North Petherton Steeple	37	13	0	
Cannington -	31	8	0	39262
North Petherton Steeple	104	30	0	20968
Weston in Zoyland Steeple	44	22	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Cannington - -	43	2		32132
North Petherton Steeple	78	8		22616
Chedzoy Steeple - -	58	50	0	
North Petherton Steeple	26	22		22602
Weston in Zoyland Steeple	85	55		10064
Chedzoy Steeple - -	67	43		
North Petherton Steeple	35	59	0	24008
Weston in Zoyland Steeple	85	46	0	14190
Burrow Mount Chapel	60	15	0	
Cannington - -	18	3	0	49306
North Petherton Steeple	140	29	0	24009
Burrow Mount Chapel	21	28		
North Petherton Steeple	60	24	0	19473
Weston in Zoyland Steeple	56	10	0	20381
East Ling Steeple -	63	26	0	
North Petherton Steeple	24	25	0	19475
Burrow Mount Chapel	52	4	0	10207
East Ling Steeple -	103	31	0	
Cannington - -	37	24	0	17383
North Petherton Steeple	36	1	0	18324
Enmore Steeple - -	106	25	0	
North Petherton Steeple	140	51	0	17683
Weston in Zoyland Steeple	80	10	0	36075
Enmore Steeple - -	21	19	0	
Cannington - -	137	35	0	17396
Huntspill Steeple -	17	7	0	39868
Enmore Steeple -	25	18	0	
Weston in Zoyland Steeple	54	45	0	32020
North Petherton Steeple	84	34	0	20267
Creech, St. Michael -	40	31	0	
Danesbury - -	24	5	0	9291
Crowcomb - - -	51	39	0	4649
Quantockshead - -	101	16	0	
Danesbury - - -	21	48	0	13327
Crowcomb -	105	5	30	5188
West Quantock Station	53	8	30	
Danesbury - - -	34	5	0	16897
West Quantock -	95	4		9483
E. Quantockshead Steeple	52	51	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Danesbury - -	31	48	0	16889
Quantockshead - -	119	38	0	10239
E. Quantockshead Steeple	28	34	0	
Crowcomb - -	25	31	0	38996
Danesbury - -	145	2	0	29313
Stockland Steeple - -	9	27	0	
Quantockshead - -	45	54	0	35026
Danesbury - -	120	57		29329
Stockland Steeple - -	13	9		
Danesbury - -		24	0	18293
West Quantock - -		8	0	12806
Summer House - -		28	0	
Danesbury - -	42	7	0	18282
Quantockshead - -	109	12	0	17982
Summer House - -	29	41	0	
Danesbury - -	66	4	0	18821
Quantockshead - -	8	31	0	17221
Little Stoke Steeple -	19	25	0	
Danesbury - -	87	23	0	11729
West Quantock -	42	8	0	17465
Stringston Steeple -	59	29		
Danesbury - -	85	6	0	11722
Quantockshead - -	54	38	0	14353
Stringston Steeple -	40	16	0	
Danesbury - -	87	13		24433
West Quantock -	63	15		27329
Chimney of a white House	29	32	0	
Danesbury - -	84	56	0	24317
Quantockshead - -		39	0	25346
Chimney of white House		25	0	
Danesbury - -		17	0	7142
Crowcomb - -	77	0	0	6513
Crowcomb Knap -	109	43	0	
Crowcomb - -	119	5	0	33920
Crowcomb Knap -	52	11	30	37521
Summer House near Nettlecomb - -	8	43	30	
Crowcomb - -	46	36	0	33892
St. Decuman's Steeple -	90	8	30	24625
Summer House -	43	15	30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet
	° ′ ″	
Crowcomb - -	114 34 0	36769
Crowcomb Knap -	56 54 0	39918
Clump of Trees near Nettlecomb - -	8 32 0	
Crowcomb - -	51 7 0	36769
St. Decuman's Steeple	89 42 40	28622
Clump of Trees -	39 10 20	
Crowcomb - -	123 52 0	24120
Crowcomb Knap -	45 20 0	28000
Tree near Nettlecomb	10 48 0	
Crowcomb - -	41 49 0	24720
St Decuman's Steeple	73 45 20	17167
Tree - - -	64 25 40	
Brompton Ralph -	36 2 17	30155
Crowcomb - -	84 43 22	17817
Quantock new Station	59 14 21	
Quantock new Station	92 50 0	15118
Crowcomb - -	39 7 37	23931
Lydiard St. Lawrence -	48 2 30	
Quantock new Station	16 1 0	28348
Crowcomb - -	141 14 0	12712
Sampford Bret Steeple	22 45 0	
Brompto Ralph -	137 30 0	33288
Quantock new Station	22 21 0	59141
Blackhill - -	20 9 0	
Brompton Ralph -	59 3 0	33278
Haddon Beacon -	51 30 0	36466
Blackhill - -	69 27 0	
Haddon Beacon -	20 35 0	28127
Black Hill - -	44 10 0	14145
Lype Hill - -	115 11 0	
Black Hill - -	83 53 30	20131
Lype Hill - -	59 3 0	23339
Grabbist Hill - -	37 3 30	
Haddon Beacon -	101 5 0	28130
Heydon Hill - -	42 44 0	40680
Lype Hill - -	36 11 0	
Blackhill - -	60 55 0	12832
Lype Hill - -	54 48 30	13722
Barrow near Luxborough	64 16 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Black Hill - -	144 48 30	12838
Grabbist - -	13 35 0	31504
Barrow near Luxborough	21 36 30	
Blackhill - - -	59 0 0	5381
Lype Hill - -	22 4 30	12273
Barrow on Croydon Hill	98 55 30	
Lype Hill - -	36 59 0	12270
Grabbist - -	28 36 0	15420
Barrow on Croydon Hill	114 25 0	
Blackhill - -	106 3 30	27837
Grabbist - -	43 52 0	38603
St. Decuman's Steeple	30 4 30	
St Decuman's Steeple	129 27 0	23226
Blackhill - -	22 50 0	46216
Crowcomb - -	27 43 0	
Lype Hill - -	14 28 0	37177
Grabbist - -	143 44 0	15700
North Hill - -	21 48 0	
Grabbist - -	9 25 0	16730
North Hill - -	100 22 0	2853
South Station on North Hill - -	64 13 0	
Grabbist - -	4 8 0	17124
North Hill - -	138 10 0	1850
North Station on North Hill - -	37 42 0	
North Hill - -	31 47 0	1851
South Station - -	37 19 0	1608
North Station - -	110 54 0	
Lype Hill - -	18 52 0	37016
Grabbist Hill - -	134 19 0	16729
South Station - -	26 49 0	
North Station -	34 8 0	10040
South Station - -	143 23 0	8703
Porlock Steeple -	5 29 0	
North Station - -	150 17 0	16254
Grabbist Hill - -	24 10 0	30287
Chimney of House on Porlock Quay - -	25 33 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
South Station -	140	33	0	15438
Grabbist Hill -	18	54	0	30283
Chimney of House -	20	33	0	
Grabbist Hill -	129	33	0	14337
North Hill - -	24	0	0	27179
Dunster Gazebo -	26	27	0	
Grabbist Hill -	5	49	0	14294
St. Decuman's Steeple	3	24	0	24425
Dunster Gazebo -	170	47	0	
Black Hill - -	23	36	0	24996
Grabbist Hill -	105	30	8	10385
Minchead Steeple -	50	54	0	
North Hill - -	55	27	0	11688
South Station -	111	25	0	10341
Luckham Steeple -	13	8	0	
North Hill - -	87	14	0	11694
North Station -	83	43	0	11751
Luckham Steeple -	9	3	0	
Grabbist Hill -	5	51	0	17966
Lype Hill - -	18	31	0	5766
Kippen's Cross -	155	38	0	
Grabbist Hill - -	20	52	0	17326
Lype Hill -	40	48	0	9445
Cutcomb Steeple -	118	20	0	
Lype Hill -	59	19	0	9444
Kippen's Cross -	83	21	0	8176
Cutcomb Steeple -	37	20	0	
Haddon Beacon -	101	9	0	12092
Lype Hill -	21	16	30	32696
Upton - -	57	34	30	
Haddon Beacon -	65	33	0	21933
Heydon Hill -	52	22	0	25212
Bampton - -	62	5	0	
Haddon Beacon -	65	28	0	21927
Upton -	81	29	0	20170
Bampton -	33	3	0	
Haddon Beacon -	39	28	0	34164
Upton -	123	20	0	25992
Honiton Down -	17	12	0	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
	°	′	″	
Haddon Beacon -	26	0	0	34176
Bampton - -	120	23	0	17367
Honiton Down -	33	37	0	
Haddon Beacon -	66	48	30	18648
Honiton Down -	32	35	0	31830
Bampton Tree -	80	36	30	
Haddon Beacon -	40	49	0	18648
Bampton -	57	19	0	14482
Bampton Tree -	81	52	0	
Tidcomb -	46	1	30	38020
Haddon Beacon -	41	35	30	41217
Stoodley Beacon -	92	23	0	
Haddon Beacon -	52	46	0	32843
Stoodley Beacon -	50	46	30	33755
West Anstey -	76	27	30	
Haddon Beacon -	70	49	0	32839
Bampton Tree -	75	47	0	51995
West Anstey -	33	24	0	
Haddon Beacon -	18	3	0	18658
Stoodley Beacon -	13	50	0	24179
Bampton Tree -	148	7	0	
Haddon Beacon -	14	38	30	40229
Stoodley Beacon -	77	17	0	10435
Small Tree on Bickham Moor - -	88	4	30	
Haddon Beacon -	38	8	0	32836
Tree on Bickham Moor	54	37	0	24870
West Anstey -	87	15	0	
Haddon Beacon -	31	8	0	49723
Tidcomb - -	60	18	0	29596
Newcot Highway -	88	34	0	
Tidcomb - -	14	16	0	29593
Stoodley Beacon -	37	59	0	11850
Newcot Highway -	127	45	0	
Bampton - -	148	40	0	13436
Honiton Down -	13	37	0	29677
Morebath Steeple -	17	43	0	
Haddon Beacon -	13	59	0	35766
Bampton -	145	55	0	15422
East Freeon Chimney Down	20	6	0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Haddon Beacon -	12 1 0	35745
Honiton Down -	96 7 0	7485
Tree on Chimney Down	71 52 0	
Haddon Beacon -	92 55 30	27576
Stoodley Beacon -	32 52 0	50747
Barn on Hill near Clayhanger - -	54 12 30	
Haddon Beacon -	31 24 0	27552
Upton - -	128 31 0	18347
Barn - -	20 5 0	
Haddon Beacon -	95 52 30	15565
Stoodley Beacon -	19 53 0	45524
Tree near a Farm House	64 14 30	
West Anstey - -	70 1 30	4032
Stoodley Beacon -	6 40 30	32598
East Anstey - -	103 18 0	
Haddon Beacon -	51 51 30	28839
Stoodley Beacon -	44 6 0	32593
East Anstey - -	84 2 30	
West Anstey -	49 31 30	14273
East Anstey - -	115 44 0	12052
Beech Tree near 12 Acre Cross - -	14 44 30	
Haddon Beacon -	8 31 0	18112
East Anstey - -	13 47 30	11252
Tree in the middle of a Field near Dulverton	157 41 30	
Haddon Beacon -	74 40 0	28364
East Anstey - -	52 2 30	34693
Stert Barn -	53 17 30	
Haddon Beacon -	17 26 0	27407
Upton - -	149 42 30	16279
Small Tree on Layton Down - -	12 51 30	
Haddon Beacon -	118 35 0	27409
Lype Hill - -	30 16 0	47752
Tree on Layton Down	31 9 0	
Haddon Beacon -	43 55 0	16664
West Anstey - -	29 1 0	23830
Clump of Firs on Hill near Brushford - -	107 4 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Haddon Beacon -	41 4 0	15953
Bampton Tree -	57 43 0	12390
Brushford - -	81 13 0	
Haddon Beacon -	59 28 0	17010
Bampton Tree -	55 40 0	17742
Dulverton -	64 52 0	
Bampton Tree -	2 3 0	17724
Brushford - -	173 12 0	5355
Dulverton -	4 45 0	
Bampton Tree -	5 33 0	18023
Dulverton - -	96 25 0	1754
Dulverton Steeple -	78 2 0	
Bampton Tree -	7 36 0	17998
Brushford - -	156 23 0	5942
Dulverton Steeple -	16 1 0	
West Anstey - -	68 0 30	7518
East Anstey - -	80 6 0	7076
East Anstey Steeple -	51 53 30	
Haddon Beacon -	121 17 0	29348
Upton - -	42 32 30	37096
Oakford Steeple -	16 10 30	
Haddon Beacon -	29 30 0	6791
Upton - -	28 25 0	7028
Upton Steeple - -	122 5 0	
Haddon Beacon -	113 5 0	10033
Heydon Hill - -	18 0 0	29868
Brompton, Regis -	48 55 0	
Haddon Beacon -	14 7 0	33561
Tidcomb - -	18 21 0	26000
Clump of Firs on a Hill between Bampton and Tiverton -	147 32 0	
Haddon Beacon -	68 38 0	33503
Upton - -	90 15 0	31257
Clump of Firs -	21 7 0	
Haddon Beacon -	4 26 0	33865
Tidcomb -	6 22 0	23607
Small Tree on a Hill between Bampton and Tiverton - -	169 12 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Culmstock - -	57 27 30	28024
Sampford -	111 12 0	25339
Ashbrittle Steeple -	11 20 30	
Culmstock - -	68 22 10	21771
Sampford -	95 57 49	20348
Holcombe Rogus -	15 40	
Culmstock - -	34 9 55	13031
Sampford - -	123 38 40	8790
White Ball Inn -	22 11 17	
Culmstock -	14 51 34	17667
Gaddon Hill -	66 31 42	4940
Uffculme Steeple -	98 36 35	
Culmstock - -	12 54 9	5711
Kentisbere -	5 4 19	14424
Culmstock Steeple -	162 1 32	
Quantock - -	31 59 11	47425
Staple Hill -	45 1 22	35513
Wellington Steeple -	102 59 27	
Brompton Ralph -	69 39 13	48141
Quantock -	72 9 9	47419
Wellington Steeple -	38 11 38	
Quantock - -	8 50 25	40289
Staple Hill	13 38 21	26257
St. Mary's Steeple, Taunton	157 31 14	
Quantock -	112 58 35	40315
Brompton Ralph -	38 17 37	59895
St. Mary's Steeple -	28 43 44	
Qantock - -	22 40 37	11340
Staple Hill - -	4 33 23	55037
Cothelestone Lodge -	152 46 0	
Quantock - -	99 6 6	23492
Staple Hill -	18 34 15	72835
Willet Hill Summer House	62 19 39	
Brompton Ralph -	14 40 32	8140
Quantock - -	5 2 14	23487
Willet Hill Summer House	160 17 14	
Quantock - -	56 18 58	26793
Staple Hill -	23 50 5	55172
Fitzhead Steeple -	99 50 57	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Quantock - -	42 38 13	76663
Staple Hill -	80 14 37	52690
Lady Chatham's Obelisk	57 7 10	
Brompton Ralph -	30 42	34409
Quantock - -	84 31	17650
Bishop's Lydiard -	64 46 39	
Brompton Ralph -	28 11	27429
Quantock - -	61 17 41	14771
Combe Florey Steeple	90 31 12	
Brompton Ralph -	56 11 49	23886
Quantock - -	47 49 22	26783
Fitzhead Steeple -	75 58 49	
Brompton Ralph -	49 27 55	30106
Quantock - -	62 54 23	25701
Halse Steeple -	67 37 42	
Brompton Ralph -	87 22 3	20516
Quantock - -	34 2 54	36604
Wiveliscomb Steeple	58 35	
Wellington Steeple -	133 57 0	17432
Staple Hill - -	14 56	49238
Milverton Steeple -	81 17	
Wellington Steeple -	34 10 0	11601
Milverton Steeple -	39 45 0	10188
Langford Budville -	106 5 0	
Wellington Steeple -	11 45 0	6021
Milverton Steeple -	6 4 0	11602
Ninehead Steeple -	162 11 0	
Wellington Steeple -	118 46	10763
Milverton Steeple -	22 41	24489
Buckland Steeple -	38 39	
Wellington Steeple -	68 54	24679
Milverton Steeple -	69 38	24560
Norton Fitzwarren -	41 28	
Wellington Steeple -	78 15	12535
Milverton Steeple -	39 31	19287
Bradford Steeple -	62 14 0	
Wellington Steeple -	56 31	15000
Milverton Steeple -	53 48	15503
Hill Farence - -	69 41	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Staple Hill - -	44 22 41	43255
Castlineroach -	124 3 44	36517
Fivehead Steeple -	11 33 35	
Staple Hill - -	130 22 0	33651
Castlineroach -	38 28 47	41206
Norton Fitzwarren -	11 9 18	
Staple Hill - -	39 27 17	33599
Castlineroach -	125 56 33	26372
Curry Mallet Steeple -	14 36 10	
Staple Hill - -	75 17 0	16715
Castlineroach -	68 58 0	17320
Thurlbeer Steeple -	35 45 0	
Staple Hill - -	59 3 56	20438
Castlineroach -	90 8 33	17531
West Hatch Steeple -	30 47 31	
Staple Hill - -	35 54 0	31494
Castlineroach -	132 52 0	39366
Isle Abbot's Steeple -	11 14 0	
Staple Hill - -	18 52 0	36620
Castlineroach -	153 55 0	26933
Ilton Steeple -	7 13 0	
Staple Hill - -	74 24 0	27507
Castlineroach -	83 24 0	20671
Thorne Falcon Steeple -	22 12 0	
Staple Hill - -	59 17 13	49272
Castlineroach -	109 8 26	44840
Stoke St. Gregory Steeple	11 34 21	
Staple Hill - -	119 1 15	26280
Castlineroach -	149 8 5[illegible]	16745
Ashill Steeple -	11 46 4[illegible]	
Dumpdon -	18 7 0	46168
Staple Hill -	78 44 0	14638
Clump of Firs on Buckland Hill - -	83 9 0	
Dumpdon - -	6 8 0	35939
Staple Hill -	19 14 0	11656
Brown Down -	154 38 0	
Dumpdon - -	7 5 0	44542
Staple Hill -	65 12 0	6050
Barrow on Hill near Otterford - -	107 43 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Staple Hill - -	45 58 0	6026
Brown Down -	30 7 0	8634
Barrow on Hill -	103 55 0	
Brown Down -	60 43 0	19617
Barrow on Hill -	93 13 0	17137
Comb Beacon -	26 4 0	
Staple Hill - -	59 30 0	14626
Brown Down - -	71 26 0	13294
Clump on Buckland Hill	49 4 0	
Brown Down -	19 24 0	19620
Clump on Buckland Hill	128 39 0	8345
Comb Beacon -	31 57 0	
Brown Down -	39 24 0	27397
Clump on Buckland Hill	114 22 0	19090
Snowdown - -	26 14 0	
Brown Down - -	20 0 0	27299
Combe Beacon -	123 10 30	11196
Snowdown -	36 49 30	
Combe Beacon -	51 26 0	20387
Snowdown - -	95 25 30	16012
Prize Hill -	33 8 30	
Comb Beacon -	93 37 30	17323
Prize Hill - -	39 55 0	27915
Bailey Down - -	46 47 30	
Bailey Down -	20 2 30	22436
Comb Beacon -	112 56 30	8349
Clump on Buckland Hill	47 1 0	
Snowdown - -	54 22 0	5402
Prize Hill - -	18 50 30	13594
Chard Steeple -	106 47 30	
Kentisbere - -	145 3 0	14490
Wherry Farm -	22 18 0	17346
Hemyock -	12 39 0	
Kentisbere -	135 2 0	30044
Wherry Farm -	37 17 0	35050
Clay-Hydon Steeple -	7 41 0	
Kentisbere - -	10 1 0	30066
Hemyock -	163 54 0	18858
Clay-Hydon Steeple -	6 5 0	

Names of Stations and intersected Objects	Angles for Calculation			Distances in Feet
	°	′	″	
Clay-Hydon Steeple -	28	13	0	7111
Hemyock - -	14	57	0	13033
Barn on a Hill -	136	50	0	
Kentisbeare - -	55	33	0	25215
Clay-Hydon Steeple -	52	46	0	26116
Beech Tree -	71	41	0	
Kentisbeare - -	119	14	0	47029
Wherry Farm -	54	12	0	50599
East Chimney of Holman Clavell - -	6	34	0	
Wherry Farm - -	31	54	0	50600
Hemyock - -	133	4[illegible]	0	37026
Holman Clavell -	14	20	0	
Kentisbeare - -	33	4	0	38381
Hemyock -	134	38	0	29427
Holly Tree near the Taunton Turnpike Road	12	18	0	
Hemyock - -	29	16	0	29431
Clay-Hydon Steeple -	115	21	0	15921
Holly Tree -	35	23	0	
Upcot Pen - -	62	6	0	554
Hembury Fort -	2	15	0	12461
Upcot Pen New Station.	115	39	0	
Upcot Pen -	111	23	0	554
Wherry Farm -	12	33	0	2374
Upcot Pen New Station	56	4	0	
Upcot Pen New Station	113	16	0	25[illegible]77
Wherry Farm - -	62	4	0	20[illegible]3
Clist-Hydon Steeple -	4	40	0	
Upcot Pen New Station	75	1	0	25812
Hembury Fort -	76	56	0	25597
Clist-Hydon Steeple -	28	3	0	
Upcot Pen New Station	117	50	0	25099
Hembury Fort -	42	33	0	32821
Columpton Steeple -	19	37	0	
Kentisbeare -	74	24	0	25209
Wherry Farm -	90	21	0	24281
Columpton Steeple -	15	15	0	
Culmstock -	34	51	28	38877
Kentisbere - -	118	18	25	25238
Columpton Steeple -	26	50	7	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Hembury Fort -	18	14	0	22384
Upcot Pen New Station	141	29	0	11246
Kentisbere Steeple -	20	17	0	
Kentisbere -	68	45	0	9885
Wherry Farm -	71	41	30	9704
Kentisbere Steeple -	39	33	30	
Wherry Farm -	60	20	30	20085
Upcot Pen New Station	113	26	0	19023
Plymtree Church -	6	13	30	
Hembury Fort -	103	12	0	18153
Upcot Pen New Station	46	47	0	24251
Tallaton Steeple -	30	1	0	
Kentisbere - -	127	0	0	27459
Vherry Farm -	43	26	30	31892
Sampford Peverel -	9	33	30	
Gaddon Hill -	162	52	29	21714
Kentisbere - -	11	28	44	32127
Holbuston Steeple -	5	38	47	
Kentisbere - -	101	21	9	19830
Wherry Farm -	61	32	50	22113
Willitoi Steeple -	17	5	52	
Hembury Fort	26	27	31	24628
North Otter Moor -	92	40	15	10985
St. Mary Otter Steeple	60	52	14	
Hembury Fort -	111	53	4	37266
North Ottery Moor -	44	18	26	49507
Bradninch Steeple -	23	48	30	
Hembury Fort -	79	44	12	8663
North Ottery Moor -	23	5	26	21735
Pehembury Steeple -	77	10	22	
North Ottery Moor	120	30	14	21741
South Ottery Moor -	31	36	52	35698
Pehembury Steeple	27	46	54	
North Ottery Moor -	145	32	54	19631
South Ottery Moor -	17	21	44	37215
Admiral Graves's House	17	5	22	
Hembury Fort -	50	42	4	18352
North Ottery Moor -	55	4	44	17323
Honiton Chapel -	74	12	31	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
South Ottery Moor -	65	46	32	47012
West Ottery Moor -	89	18	32	42875
General Simcoe's House	24	54	56	
Dumpdon - -	37	58	0	21637
Harner Hill - -	57	17	0	15760
Widworthy - -	84	45	0	
Dumpdon - -	8	43	0	35261
Harner Hill -	150	14	0	10763
Membury - -	21	3	0	
Harner Hill	152	29	0	10762
Widworthy - -	11	7	0	257[illegible]
Membury - -	16	24	0	
Harner Hill -	97	37	0	28725
Widworthy -	55	30	0	34547
Chimney of Hunter's Lodge - -	26	53	0	
Harner Hill -	54	52	0	28711
Membury - -	103	47	0	24176
Chimney of Hunter's Lodge -	21	[illegible]	0	
Widworthy - -	44	23	0	34540
Membury -	87	23	0	24184
Chimney of Hunter's Lodge - -	[illegible]	14	0	
Harner Hill - -	[illegible]	52	0	25125
Membury -	120	28	0	17893
Chimney of Cuthay's House - -	[illegible]	40	0	
Harner Hill -	123	4[illegible]	0	40765
Widworthy - -	41	28	0	51216
Lambert's Castle -	14	50	0	
Harner Hill - -	128	20	0	30619
Widworthy -	34	39	0	42243
Hawkchurch - -	17	1	0	
Widworthy -	23	33	0	42243
Membury - -	127	28	0	21265
Hawkchurch -	28	59	0	
Harner Hill -	66	9	0	25571
Widworthy - -	76	57	0	24007
Musbury Steeple -	36	54	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Membury - -	53	54	0	27096
Widworthy -	65	50	0	23996
Musbury Steeple -	60	16	0	
Harner Hil - -	106	43	0	37392
Membury - -	59	0	0	41779
Seaton Steeple -	14	17	0	
Harner Hill -	34	55	0	46472
Widworthy - -	130	2	0	34741
Beer Signal Staff -	15	3	0	
Harner Hill -	56	47	0	14899
Widworthy - -	58	38	0	14598
Shute Hill Signal Staff	64	35	0	
Widworthy -	47	31	0	14598
Membury - -	34	3	0	19227
Shute Hill Signal Staff	98	26	0	
Harner Hill - -	134	44	20	18753
Beacon Hill - -	39	56	4	20752
Axminster Steeple -	5	19	36	
Widworthy - -	140	2	0	22145
Membury -	18	24	0	45066
Wishcomb Tower -	21	34	0	
Dumpdon - -	40	8	0	15929
Widworthy - -	47	36	0	13904
Turnpike House on Hill South of Honiton -	92	16	0	
Dumpdon - -	27	2	0	11989
Widworthy -	26	37	0	12163
Fir Tree near Russell Buildings - -	126	21	0	
Widworthy - -	23	6	0	22171
Wishcomb - -	78	37	0	8873
Broad Down - -	78	17	0	
Widworthy - -	21	7	0	34740
Wishcomb - -	129	21	0	16185
Beer Signal Staff -	29	32	0	
Wishcomb - -	38	31	0	27759
Broad Down - -	126	37	0	21537
South Ottery Moor -	14	52	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet
	° ′ ″	
South Ottery Moor	125 43 0	8615
Broad Down - -	14 45 0	27471
North Station Peak Hill	39 32 0	
South Ottery Moor -	110 51 0	8624
Wishcomb - -	14 39 0	31864
North Station Peak Hill	54 30 0	
Broad Down - -	21 42 0	19902
North Station Peak Hill	39 20 0	11610
Salcomb Hill - -	118 58 0	
South Ottery Moor -	64 54 0	13045
Broad Down - -	36 26 0	19891
Salcomb Hill -	78 40 0	
South Ottery Moor -	62 57 0	11700
Salcomb Hill -	53 27 0	12971
South Station Peak Hill	63 36 0	
Salcomb Hill - -	155 45 0	14333
Broad Down -	10 7 30	33486
High Peak Station -	14 7 30	
Salcomb Hill - -	13 10 0	12969
North Station Peak Hill	109 1 0	3125
South Station Peak Hill	57 49 0	
South Ottery Moor	113 51 0	14464
Broad Down - -	25 47 0	30413
Peak Hill Signal Staff	40 22 0	
South Ottery Moor -	13 58 0	14475
South Station Peak Hill	123 54 0	4209
Peak Hill Signal Staff	42 8 0	
South Ottery Moor -	19 48 0	22212
Broad Down - -	85 9 0	7551
Clump of Firs on Farway Hill - -	75 3 0	
South Ottery Moor	20 17 0	20870
Broad Down - -	74 50 0	7496
Cottage on Broad Down	84 53 0	
Wishcomb Tower -	54 19 0	7256
Broad Down - -	51 47 0	7502
Cottage on Broad Down	73 54 0	
Widworthy - -	20 12 0	15059
Wishcomb Tower -	32 59 0	9552
Widden Pen - -	126 49 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Widworthy - -	29 20 30	8192
Widden Pen -	26 53 0	8878
North Leigh - -	123 46 30	
Widworthy - -	9 9 0	8197
Wishcomb Tower -	5 18 0	14113
North Leigh - -	165 33 0	
North Leigh - -	79 10 0	3418
Widden Pen -	22 10 30	8893
North Leigh Steeple -	78 39 30	
Widworthy - -	113 21 0	7364
Widden Pen -	20 36 30	19207
Offwell Steeple -	46 2 30	
Salcomb Hill -	40 8 0	5834
North Station Peak Hill	27 50 0	8073
Sidmouth Steeple -	112 2 0	
Widworthy - -	65 0 0	39540
Wishcomb -	81 23 0	36252
Whitland's Signal Staff	33 37 0	
South Ottery Moor	11 36 0	21858
South Station Peak Hill	155 39 0	10660
Otterton Steeple -	12 45 0	
High Peak - -	98 40 0	8130
South Station Peak Hill	49 2 0	10644
Otterton Steeple -	32 18 0	
Salcomb Hill -	23 38 0	14345
South Station Peak Hill	91 43 0	5753
High Peak - -	64 39 0	
South Ottery Moor -	20 16 0	24820
South Station Peak Hill	143 25 0	14425
Budleigh Steeple -	16 19 0	
South Station Peak Hill	61 16 0	14415
High Peak - -	95 19 0	12694
Budleigh Steeple -	23 25 0	
South Ottery Moor -	52 8 0	26288
South Station Peak Hill	108 4 0	21221
Clump of Firs on Woodbury Hill - -	25 48 0	
South Ottery Moor -	67 22 0	15511
South Station Peak Hill	68 10 0	15416
Red Brick House on West Ottery Moor - -	44 28 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
South Station Peak Hill	136 30 0	15409
High Peak - -	32 4 0	19979
Red Brick House -	11 26 0	
South Station Peak Hill	84 42 0	6453
High Peak - -	51 15 0	8239
Colyton Rawleigh -	44 3 0	
South Ottery Moor -	44 22 0	20169
Broad Down - -	63 13 0	15798
Weston House - -	72 25 0	
Hembury Fort - -	6 57 0	12262
General Simcoe's Signal Staff - -	136 58 0	2174
St. Size Hill - -	36 5 0	
Hembury Fort -	13 32 0	7979
St Size Hill - -	22 31 0	4876
Awliscombe Steeple -	143 57 0	
Hembury Fort -	66 26 0	20836
General Simcoe's Staff	83 16 30	19230
North Ottery New Station	30 17 30	
Hembury Fort -	29 48 0	6944
North Ottery New Station	13 7 0	15207
Buckerell - -	137 5 0	
Hembury Fort - -	36 38 0	6943
General Simcoe's Staff	39 35 0	6502
Buckerell - -	103 47 0	
Hembury Fort -	94 35 0	1214
General Simcoe's Staff	6 28 0	10748
Hembury Fort New Station	78 57 0	
Hembury Fort - -	33 31 0	6757
Hembury Fort New Station	139 49 30	5783
Broadhembury Steeple	6 39 30	
North Ottery New Station	7 55 0	11693
Buckerell - -	23 57 0	3967
Buckerell Steeple -	148 8 0	
Hembury Fort - -	23 14 0	9253
Buckerell - -	113 8 0	3969
Buckerell Steeple -	43 38 0	
North Ottery New Station	36 59 0	10913
Buckerell - -	45 20 0	9231
Fenyton Steeple -	97 41 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Hembury Fort -	14 48 0	20540
St. Size Hill - -	145 22 0	9232
Honiton Steeple -	19 50 0	
St. Size Hill - -	83 54 0	11105
Honiton Steeple -	53 54 0	13666
Dumpdon - -	42 12 0	
Dumpdon - -	152 38 0	9440
Honiton Steeple -	11 8 0	22472
Luppit Steeple -	16 14 0	
Dumpdon - -	157 6 0	14516
Honiton Steeple -	11 48 0	27622
Upottery Steeple -	11 6 0	
Honiton Steeple -	65 42 0	27633
St. Size Hill - -	94 51 20	25276
Upottery Steeple -	19 26 40	
Tidcomb - -	85 19 0	27431
Stoodley Beacon -	37 23 0	45030
Cadbury Castle -	57 18 0	
Tidcomb - -	36 23 0	27436
Christcross - -	98 13 0	16443
Cadbury Castle -	45 24 0	
Christcross - -	72 26 30	16450
Rocks Barton - -	29 37 0	31735
Cadbury Castle - -	77 56 30	
Cadbury Castle -	63 25 0	3628
Rocks Barton - -	6 9 0	30286
Furzdon - -	110 26 0	
Tidcomb - -	101 45 0	29927
Cadbury Castle -	41 9 0	44527
Studley Steeple -	37 6 0	
Cadbury Castle - -	165 42 0	21318
Furzdon - -	12 14 0	24850
Poughill Steeple -	22 4 0	
Cadbury Castle -	103 25 0	8673
Furzdon - -	56 14 0	10148
Cadeleigh Steeple -	20 21 0	
Cadbury Castle -	81 15 0	4853
Cadleigh Steeple - -	31 9 0	9272
Prawhill - -	67 36 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Cadbury Castle -	18 58 0	21326
Prawhill - -	155 39 0	16811
Poughill Steeple - -	5 23 0	
Prawhill - -	23 17 0	10552
Poughill Steeple -	30 22 0	8250
Cheriton Fitzpain Steeple	126 21 0	
Tidcomb - -	45 46 0	13302
Newcot Highway - -	25 8 0	22440
Turret on a House near Tiverton - -	109 6 0	
Christcross - -	10 45 0	32189
Tidcomb - -	153 12 0	13316
Turret on House -	16 3 0	
Newcot Highway -	156 8 0	2230
Stoodley Beacon - -	3 43 0	13918
Templeton Tree -	20 9 0	
Stoodley Beacon -	20 16 0	21600
Newcot Highway -	138 29 0	11325
Cruwys Morchard Steeple	21 15 0	
Newcot Highway -	96 59 0	16683
Cruwys Morchard Steeple	57 7 0	21282
Rackenford Steeple -	31 54 0	
Newcot Highway -	42 30 0	16682
Stoodley Beacon -	92 17 0	11279
Rackenford Steeple -	45 13 0	
Whitestone - -	122 23 46	53468
Exeter Cathedral -	43 8 45	66017
Puddington Steeple -	14 27 29	
Cadbury Castle - -	111 32 0	11346
Rocks Barton - -	16 23 0	37419
Bickleigh Steeple -	52 5 0	
Christcross - -	35 58 0	52446
Tidcomb - -	126 24 0	38268
Burlescombe Steeple -	17 38 0	
Christcross - -	17 13 0	37364
Tidcomb - -	145 16 0	19410
Uploman Steeple -	17 31 0	
Cadbury Castle -	13 53 0	25688
Rocks Barton - -	42 12 0	9176
Upton Pyne Steeple -	123 55 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Cadbury Castle - -	16 33 0	22535
Rocks Barton - -	32 21 0	11996
Rewe Steeple - -	131 6 0	
Furzdon - -	15 9 0	20234
Rocks Barton -	26 11 0	11985
Rewe Steeple - -	138 40 0	
Whitestone - -	20 22 8	11701
Christcross -	6 25 14	36420
Newton St. Cyrus Steeple	153 12 38	
Whitestone - -	22 58 38	26581
Christcross - -	24 34 32	24949
Stoke, Cannon's Steeple	132 26 50	
Whitestone - -	17 22 34	23348
Christcross - -	15 39 24	25837
Brampfordspeke Steeple	146 58 2	
Whitestone - -	95 4 27	1515
Christcross - -	1 49 37	47319
Whitestone Steeple	83 5 36	
Whitestone - -	15 7 10	47144
Christcross -	149 45 20	9104
Gernsey's Gazebo -	15 7 30	
Whitestone - -	84 10 43	83647
Christcross - -	61 42 13	74034
Woodbury Signal Staff	34 7 4	
Whitestone - -	45 3 0	50780
Christcross - -	72 34 0	37668
Rockbeare Steeple -	62 23 0	
Whitestone - -	56 11 50	57187
Christcross - -	72 6 10	49936
Aylesbeare Steeple -	51 42 0	
Cadbury Castle -	31 28 0	59817
Rocksbarton - -	1[illegible]1 42 0	36699
Aylesbeare Steeple -	26 50 0	
Christcross - -	47 16 0	49936
Rocksbarton - -	9[illegible] 5 0	36703
Aylesbeare Steeple -	40 39 0	
Christcross - -	120 27 0	21818
Cadbury Castle -	34 22 0	33318
Spray down - -	25 11 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Haldon Old Station -	87	58	14	18903
Haldon New Station	64	2	21	21012
Alphington Steeple -	27	59	25	
Haldon Old Station -	8	44	54	18917
Exeter Cathedral -	19	46	6	8507
Alphington Steeple	151	29	0	
Haldon Old Station -	133	7	35	30396
Haldon New Station	35	54	1	37834
Whitestone Steeple -	10	58	24	
Haldon Old Station -	11	35	36	40660
Haldon New Station -	164	44	45	31057
Exmouth Chapel -	3	39	39	
Haldon New Station -	101	33	46	29125
Exeter Cathedral -	38	53	40	45445
Exmouth Mill -	39	32	34	
Haldon Old Station -	24	40	48	25441
Haldon New Station	141	16	4	16982
Belvidere at Powderham	14	2	28	
Haldon Old Station -	72	2	20	25446
Exeter Cathedral -	52	5	0	30083
Belvidere at Powderham	55	52	40	
Haldon Old Station -	21	35	8	27701
Haldon New Station	147	19	39	18878
Vane on the Square Tower Powderham Castle	11	5	13	
Haldon Old Station -	51	48	4	27761
Haldon New Station -	108	29	59	23005
Topsham Chapel -	19	41	57	
Haldon Old Station -	39	42	0	12035
Haldon New Station -	85	28	57	7712
Kenn Steeple -	54	49	3	
Haldon Old Station -	71	28	14	38040
Haldon New Station	93	31	27	36136
Sourton Steeple -	15	0	19	
Haldon Old Station -	41	33	48	41147
Haldon New Station	127	27	49	34393
Woodbury Steeple -	10	58	23	
Haldon Old Station -	86	9	35	28656
Haldon New Station -	74	27	53	29676
Heavitree Steeple -	19	22	32	

Names of Stations and intersected Objects	Angles for Calculation.			Distances. in Feet.
	°	′	″	
Haldon Old Station -	55	0	56	21308
Haldon New Station -	97	39	54	17615
Exminster Steeple -	27	19	10	
Haldon Old Station -	32	42	36	46633
Haldon New Station	139	22	13	38700
Woodbury Hill Summer House - -	7	55	11	
Haldon Old Station -	71	13	38	43614
Haldon New Station -	95	45	50	41503
Honiton Clyst Steeple	13	0	32	
Haldon New Station -	61	3	40	14292
Exeter Cathedral -	28	56	40	25844
Lawrence Tower -	89	59	40	
Haldon Old Station -	74	10	20	44631
Exeter Cathedral -	9	33	50	25844
Lawrence Tower -	96	15	50	
Haldon Old Station -	17	13	0	16293
Lawrence Tower -	156	31	0	12102
Castle Hill - -	6	16	0	
Haldon Old Station -	12	52	0	14689
Castle Hill - -	58	55	0	3820
Small Clump of Firs on the Point of a Hill - -	108	13	0	
Castle Hill - -	70	17	0	5679
Clump of Firs -	70	24	0	5675
White Chimney of third House from Exeter at Longdown End -	39	19	0	
Haldon Old Station	20	27	0	10024
Whitestone Steeple -	9	28	0	21294
Dunchideock -	150	5	0	
Haldon Old Station -	17	18	0	10018
Lawrence Tower -	149	43	0	5907
Dunchideock -	12	59	0	
Haldon Old Station -	9	39	0	8514
Dunchideock -	41	15	0	2164
Dunchideock Steeple	129	6	0	
Haldon Old Station -	20	16	0	5639
Dunchideock -	22	26	0	5118
Turret on North Wing of Haldon House -	137	18	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Haldon Old Station -	83	47	0	10279
Lawrence Tower -	71	51	0	10754
Shillingford Steeple -	24	22	0	
Haldon Old Station -	13	5		978
Lawrence Tower -	3	36	30	3517
A New Station on Haldon	163	18	30	
New Station - -	42	32	30	2275
Lawrence Tower -	39	52	30	2399
Ashton - -	97	35	0	
Lawrence Tower -	107	26		6018
Ashton - -	53	48		7115
Doddescombeleigh Steeple	18	46	0	
Castle Hill - -	58	46	0	6278
Clump of Firs - -	84	0	0	5398
Dunchideock - -	37	14	0	
Castle Hill - -	129	2	0	5673
Dunchideock - -	24	6	0	10791
Longdown End Chimney	26	52	0	
Lawrence Tower -	59	29	0	5983
Dunchideock -	60	53	0	5898
Doddescombeleigh Steeple	59	38	0	
Lawrence Tower -	57	25	0	7988
Ashton - -	105	47	0	6995
Ashton Steeple - -	16	48	0	
Haldon New Station	22	7	48	10541
Little Haldon -	12	34	57	18229
Lord Lisburn's Obelisk	145	17	15	
Lord Lisburn's Obelisk	18	58	50	18855
Little Haldon -	86	16	40	6146
Holcomb Down -	74	44	30	
Holcomb Down -	88	36		9217
Lord Lisburn's Obelisk -	26	19		20784
Lyndridge - -	65	5		
Holcomb Down	61	56		24653
Lyndridge - -	96	15		21884
Coffinswell	21	19		
Holcomb Down.	21	36		37511
Coffinswell -	126	31		17182
Hopes-nose	31	53	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Holcomb Down -	83	31	0	37500
Lyndridge -	82	23	0	37592
Hopes-nose - -	14	6	0	
Coffinswell - -	14	10	30	12624
Hopes nose	32	1	30	5830
Warbury Hill -	133	48	0	
Hopes-nose - -	27	5	0	3765
Warbury Hill -	34	41	0	3013
Torwood - -	118	14	0	
Warbury Hill -	78	22	0	20446
Coffinswell -	67	0	0	21756
Marldon - -	34	38	0	
Warbury Hill -	113	9	0	20439
Torwood -	59	33	0	21800
Marldon - -	7	18	0	
Holcomb Down -	73	35	30	13755
Lyndridge -	68	0	0	14237
Shaldon - -	38	24	30	
Lyndridge - -		16	0	14227
Coffinswell - -	35	46	0	11527
Shaldon - -	115	58	0	
Coffinswell -	18	6	30	6870
Hopes-nose -	11	20	0	10865
Church St. Mary Steeple	150	33	30	
Hopes-nose - -	20	42	0	10868
Warbury Hill -	38	28	0	5794
Church St. Mary Steeple	20	50	0	
Hopes-nose -	49	56		20638
Warbury Hill -	115	16		17465
Paington Steeple -	14	48		
Torwood -	89	29		17228
Warbury Hill -	80	35		17463
Paington Steeple - -	9	36		
Torwood - - -	55	5	0	13182
Warbury Hill -	112	45	0	11721
Cockington Steeple -	12	10	0	
Hopes-nose -	55	7	30	18920
Warbury Hill -	107	49	0	16304
Chimney of White House near Paington Bay	17	3	30	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Warbury Hill -	73 7 0	16303
Torwood - -	96 18 0	15695
Chimney of White House	10 35 0	
Torwood - -	10 5 0	23857
Maldon - -	112 1 0	4505
Tree on Beacon Hill -	57 54 0	
Warbury Hill -	51 52 30	7830
Coffinswell - -	38 40 0	9931
Building on Chapel Hill	89 47 30	
Lyndridge - -	19 48 0	18222
Coffinswell - -	52 29 0	7782
Furze Hill -	107 43 0	
Warbury Hill -	13 13 0	19506
Coffinswell - -	144 59 0	7772
Furze Hill - -	21 48 0	
Coffinswell - -	36 47 0	11915
Furze Hill -	103 54 0	7350
King's Kerswell Steeple -	39 19 0	
Coffinswell - -	26 25	18632
Furze Hill - -	137 4	12170
Abbot's Kerswell Steeple	16 31	
Lyndridge - -	114 34 0	19428
Shaldon - -	38 23 0	28457
Teigngrace Spire -	27 3 0	
Lyndridge -	75 36	134[illegible]2
Shaldon - -	40 41	204[illegible]2
King's Teignton Steeple	43 43 0	
Lyndridge - -	45 54	36[illegible]59
Coffinswell - -	97 4	26093
Ipplepen Steeple -	37 2	
Coffinswell - -	33 42 0	18088
Shaldon - -	109 20 0	10636
Bishop's Teignton -	36 58 0	
Lyndridge - -	41 21	12644
Holcomb Down -	91 52	8359
Signal Staff, Teignmouth Fort - -	46 46	
Holcomb Down -	94 33	7438
Shaldon - -	27 20	16149
Dawlish Signal Staff -	58 7	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Lyndridge - -	97 28	20526
Shaldon - -	50 18	26452
Week Steeple - -	32 14 0	
Lyndridge - -	79 49	13312
Teigngrace Spire -	37 30	21522
Ideford - -	62 41	
Ideford - -	137 4 0	24285
Teigngrace Spire -	5 48 0	36029
Chudleigh -	37 8 0	
Ideford - -	75 38 0	10114
Chudleigh - -	83 38 0	9858
Chudleigh Steeple -	20 44 0	
Little Haldon - -	37 24 5	54751
Rippon Tor - -	69 24 30	35525
Blackingstone Rock -	73 11 25	
Rippon Tor Old Station	37 30 30	233
Blackingstone Rock -	0 13 50	35340
Rippon Tor New Station	142 15 40	
Blackingstone Rock -	137 45	8360
Rippon Tor New Station	7 42 30	41907
Mardon Down - -	34 32 30	
Rippon Tor New Station	17 20 30	44331
Mardon Down -	91 46 30	13220
Cranbrook Castle -	70 53 0	
Cranbrook Castle -	113 44 0	6322
Mardon Down -	20 9 30	16793
Drewsteignton - -	46 6 30	
Cranbrook Castle -	70 23 0	19188
Mardon Down -	69 26 30	19303
Cheriton Bishop's -	40 10 30	
Cranbrook Castle -	55 21 0	28371
Mardon Down -	97 6 30	23520
St. Mary Tedbourne -	27 32 30	
Cranbrook Castle -	38 30 0	45828
Mardon Down - -	128 26 30	36424
Whitestone Steeple -	13 3 30	
Cranbrook Castle -	110 29 0	21348
Mardon Down - -	44 1 30	28775
Hittesleigh - -	25 29 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet
	° ′ ″	
Cranbrook Castle	90 15 0	37570
Mardon Down -	70 23 30	39882
Colebrooke -	19 21 30	
Cranbrook Castle	122 12 0	11703
Mardon Down	26 58 30	21832
Barn - -	30 49 30	
Cranbrook Castle -	74 15 0	16977
Mardon Down	62 12 30	18470
Calford House -	43 32 30	
Cranbrook Castle	60 49 0	15526
Mardon Down	67 22 30	14685
Blacksmith's Shop	51 48 30	
Bradbury Castle	43 18 30	62585
Cawsand Beacon	81 6 41	43450
Budleigh Steeple	55 34 49	
Bradbury Castle	25 33 37	27758
Hatherleigh -	44 46 37	17004
Inwardleigh Steeple	109 39 46	
Bradbury Castle	25 41 27	53507
Hatherleigh - -	15 35 2	25713
Honey Church	38 43 31	
Hatherleigh -	86 42 3	14550
Bradbury Castle	21 49 2[illegible]	39075
Jacobstowe -	71 28 3	
High Hampton	63 9 0	16890
Hatherleigh -	48 13 10	20208
Petrock Stowe -	68 37 50	
High Hampton -	32 41 0	22747
Hatherleigh -	80 59 30	12437
Meeth -	66 19 30	
High Hampton -	24 58 0	28739
Hatherleigh -	112 14 [illegible]	13105
Iddesleigh - -	42 47 33	
Bradbury Castle -	26 10 1[illegible]	35431
High Hampton -	109 55 [illegible]	31[illegible]4
Dowland [illegible] -	23 51 [illegible]	
Bradbury Castle	26 30 [illegible]	63488
High Hampton -	107 21 [illegible]	48258
Winckley -	26 7 54	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
High Hampton	19 28	54396
Winckley -	99 29	18379
Ring's Ash -	61 3	
Cawsand Beacon	16 6 24	48119
Spreyton -	146 55 0	24450
Zeal Monachorum	16 58 3	
Bradbury Castle	33 8 35	62545
Cawsand Beacon	90 11 3	34196
North Tawton	56 39 53	
Hatherleigh -	48 26 50	23959
High Hampton	73 49 30	18608
North Lewe -	57 43 40	
High Hampton -	118 22 5[illegible]	19475
Hatherleigh - -	29 26 51	34852
Beaworthy - -	32 10 19	
Hatherleigh -	19 0 0	34848
North Lewe - -	128 23 40	14476
Beaworthy - -	32 36 0	
St. Stephen's Down -	33 18 6	31587
Black Down -	25 39 20	40057
Broadwoodwidger -	121 2 34	
St. Stephen's Down -	19 24 39	37474
Black Down -	24 37 50	29883
Stowford - -	135 57 31	
Bradbury Castle -	33 2 40	14384
St. Stephen's Down	8 53 5	50715
Bratton Clovelly Steeple	138 3 30	
Bradbury Castle	47 7 50	31743
St. Stephen's Down	23 6 56	36872
Ashwater - -	129 45 14	
Bradbury Castle	55 9 18	50489
St. Stephen's Down	51 12 3	53168
Brent Tor -	73 38 39	
Black Down -	54 11 0	37331
St. Stephen's Down	36 39 5[illegible]	50693
Bratton Clovelly	89 9 3	
Bratton Clovelly	20 6 40	33751
St. Stephen's Down	31 25 0	22263
Lifton Steeple -	28 28 20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Black Down - -	5 31 6	77732
St. Stephen's Down	153 18 7	16637
North Petherwin Steeple	21 10 47	
Black Down - -	15 25 47	70014
St. Stephen's Down -	104 58 29	19282
Boyton Steeple -	59 35 44	
Black Down - -	4 46 37	61290
St Stephen's Down -	74 20 14	5301
Werrington Steeple -	100 53 9	
St. Stephen's Down -	120 10 29	58942
Warbstow - -	35 23 51	87980
Bradbury Barrow -	44 26 0	
St Stephen's Down -	65 54 33	36515
Warbstow - -	50 47 45	43018
North Tamerton Steeple	63 17 42	
St Stephen's Down -	11 42 24	36515
Holsworthy Steeple	17 59 20	23990
North Tamerton Steeple	150 18 16	
St Stephen's Down -	10 53 0	33999
North Tamerton Steeple	64 1 20	7141
Tetcott Steeple -	105 5 40	
St. Stephen's Down -	19 42 13	33998
Bridgerule - -	24 38 17	27496
Tetcott Steeple -	135 39 50	
St Stephen's Down -	31 58 40	24206
North Tamerton Steeple	38 44 0	20488
Chapmanswell -	109 17 20	
Holsworthy Steeple -	13 9 0	36841
St Stephen's Down -	20 16 0	24196
Chapmanswell -	146 35 0	
St Stephen's Down -	13 39 50	28367
Chapmanswell -	116 40 50	7499
Virginstowe - -	49 39 20	
Stamford - -	32 19 30	2264
Week St. Mary Steeple	2 25 10	28681
Stratton Steeple -	145 15 20	
Stamford - -	152 6 0	2828
Week St. Mary -	2 17 30	33094
Poughill Steeple - -	25 36 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Stamford - -	46 4 30	11563
Stratton Steeple -	124 39 20	10124
Church Marham Steeple	9 16 10	
Holsworthy Steeple -	75 21 40	15114
Beacon Moor -	54 26 0	17977
Holsworthy Beacon -	50 12 20	
Holsworthy Beacon -	64 57 0	26502
Beacon Moor -	74 17 0	24941
Shebbear - -	40 46 0	
Holsworthy Steeple -	33 3 30	35662
Beacon Moor -	128 45 0	24944
Shebbear - -	18 11 30	
Holsworthy Beacon -	84 44 0	17911
Beacon Moor -	47 31 0	24184
Newton St. Petrock -	47 45 0	
Holsworthy Beacon -	101 52 0	11691
Shebbear - -	21 35 40	31088
Sutcombe Steeple -	56 32 20	
Holsworthy Beacon -	65 47 30	12759
Sutcombe Steeple -	57 12 30	11719
Milton Damerell -	97 0 0	
Shebbear - -	26 31 30	12670
Sutcombe Steeple -	15 59 30	20543
Thornbury Steeple -	137 29 0	
Pyworthy Steeple -	44 14 0	23145
Beacon Moor - -	63 57 0	17971
Holsworthy Beacon -	71 49 0	
Holsworthy Beacon -	60 12 30	18334
Pyworthy Steeple -	48 35 0	21216
Hollacombe Steeple -	71 12 30	
Holsworthy Steeple -	72 54 0	23280
Beacon Moor -	71 32 0	23459
Belland Down -	35 34 0	
Beacon Moor -	45 0 6	33765
Bradbury Castle -	54 35 48	29293
High Hampton	80 24 [illegible]	
Beacon Moor -	9 37 30	33950
High Hampton -	87 2 30	5682
Sheepwash - -	83 20 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
High Hampton -	57	29	0	8880
Sheepwash - -	83	4	0	7543
Black Torrington -	39	27	0	
High Hampton -	60	25	0	23982
Sheepwash - -	106	26	40	21745
Bradford Steeple -	13	8	20	
Beacon Moor -	29	2	30	39643
Kilkhampton - -	49	49	40	25186
Bradworthy Steeple -	101	7	50	
Holsworthy Steeple -	16	59	30	38603
Pancras Week -	150	56	30	23226
Kilkhampton - -	12	4	0	
Kilkhampton -	124	20	50	13555
Holsworthy Steeple -	13	30		47586
Crimp Down East Station	42	3		
Kilkhampton -	126	36		13538
Holsworthy Steeple	13	6	30	47924
Crimp Down West Station	40	17	30	
Crimp Down East Station	71	28		8659
Kilkhampton -		14		13569
Drake's House -		18		
Crimp Down West Station	75	14	0	16501
Kilkhampton -	59	40	40	18485
Tinnacombe Windmill	45	5	20	
Crimp Down East Station	130	12		9322
Holsworthy Steeple -	7	34		54074
Wooly Down East Station	42	14		
Crimp Down East Station	6	24	30	9044
Wooly Down East Station	71	38	10	1064
Wooly Down West Station	101	57	20	
Wooly Down West Station	65	26	30	4008
Crimp Down East Station	76	17	30	8230
Warmington's House	88	16	0	
Crimp Down East Station	41	0		31299
Wooly Down East Station	124	50		25023
Woolfardisworthy Steeple	13	9		
Wooly Down East Station	17	43	0	27717
Woolfardisworthy Steeple	86	9	30	78[illegible]4
Sir James Hamlin's Lodge	76	7	30	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
Crimp Down East Station	10	25	5	41224
Woolfardisworthy Steeple	141	7	20	11877
Cross Park - -	28	27	35	
Cross Park - -	82	9	30	17513
Woolfardisworthy Steeple	61	19	40	19773
West Putford -	36	30	50	
Bulleview - -	37	34	0	63694
Langtree - -	115	40	0	43085
Woolfardisworthy Steeple	26	46	0	
Dunkery Beacon -	39	38	21	24662
Haddon Beacon -	27	47	53	33463
Wembury Barrow -	112	33	46	
Northmolton Ridge -	122	10	20	58014
Span Head - -	43	23	10	71489
Light Hill Barrow -	14	26	30	
Northmolton Ridge	21	52	40	34330
Span Head - -	130	9	30	16738
Barrow West of Dudum	27	57	50	
Northmolton Ridge -	50	0	30	27003
Span Head - -	79	50	10	21018
Ashton Hill - -	50	9	20	
Northmolton Ridge	34	1	50	29983
Span Head -	102	42	40	17201
Dudum - -	43	15	30	
Northmolton Ridge -	64	0	40	9789
Span Head - -	27	40	50	18941
Barrow North of the Ridge	88	18	30	
Span Head - -	26	17	0	52579
Northmolton Ridge	138	14	35	34960
Rose Ash Steeple -	15	28	23	
Span Head - -	118	20	54	13651
Northmolton Ridge -	36	31	20	29518
Bishop's Nympton Steeple	25	7	46	
Span Head - -	32	42	18	48027
Northmolton Ridge -	126	42	30	32370
Wembury Barrow -	20	35	2	
Span Head - -	42	56	0	48561
North Molton Ridge -	113	39	25	36111
Mary-Anslelga Steeple	23	24	35	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Span Head -	63 34 37	59248
Northmolton Ridge	95 42 24	53323
Kingsnympton Spire -	20 42 59	
Haddon Beacon -	30 5 59	96424
Northmolton Ridge	114 55 52	53326
Kingsnympton Spire	34 58 9	
Span Head - -	12 36 27	54855
Northmolton Ridge -	159 45 30	34607
Knowstone Steeple -	7 38 3	
Span Head - -	88 6 28	48537
Northmolton Ridge -	68 8 29	52268
Chittlehampton Steeple	23 45	
Span Head - -	70 32 53	50703
Northmolton Ridge -	85 0 20	47992
Satterleigh Gazebo -	24 26 47	
Span Head - -	84 6 54	33015
Northmolton Ridge -	61 42 26	37297
Castle on Castle Hill -	34 10 40	
Northmolton Ridge -	101 18 10	34603
Southmolton Steeple	42 25 0	50306
East Anstey Steeple	36 16 50	
Northmolton Ridge -	26 28 50	36101
Southmolton Steeple -	96 55 50	16216
Mary Ansleigh Steeple	56 35 20	
Span Head -	7 54 40	53197
Southmolton Steeple -	156 12 30	18150
Romansleigh Steeple -	15 52 50	
Beacon Moor - -	67 14 59	57337
Northmolton Ridge -	53 57 27	65393
Cotten Hill - -	58 47 34	
Northmolton Ridge -	27 12 44	55095
Beacon Moor - -	65 10 52	27758
Warkleigh Steeple -	87 36 24	
Northmolton Ridge -	14 14 30	69640
Beacon Moor -	111 47 40	18451
Burrington Steeple -	53 57 50	
Northmolton Ridge -	9 12 10	53316
Beacon Moor -	46 45 16	11706
Kingsnympton Spire -	124 2 34	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Northmolton Ridge	35 10 16	59195
Beacon Moor -	70 13 20	36235
Witheridge - -	74 36 24	
Beacon Moor -	87 20 26	36244
Span Head - -	28 13 32	76552
Witheridge - -	64 26 2	
Beacon Moor - -	29 37 50	11709
Span Head - -	5 36 30	59237
Kingsnympton Spire -	144 45 40	
Beacon Moor -	14 36 2	18468
Span Head -	94 40 20	72996
Burrington - - -	70 43 19	
Northmolton Ridge -	9 16	46185
Witheridge -	28 39	15512
Meshaw Moor -	142 5	
Witheridge - -	64 40 10	9419
Beacon Moor -	14 48 2	33316
Thelbridge Steeple -	100 31 30	
Witheridge - -	92 13	16709
Thelbridge Steeple -	58 55	19496
Barrow on Meshaw Moor	28 52	
Witheridge - -	38 51	11475
Thelbridge Steeple -	86 10	7214
West Worlington Spire	54 59	
Witheridge - -	40 11 30	9664
Thelbridge Steeple -	71 55 0	6561
East Worlington Spire	67 53 30	
Beacon Moor - -	39 32 40	27710
West Morchard -	46 5 56	24485
Coleridge Steeple -	94 21 24	
Bradbury Castle -	15 30	80625
Beacon Moor -	49 0	27712
Coleridge Steeple -	125 50 30	
West Morchard -	9 37 0	13739
Coleridge Steeple -	11 51 0	11177
Lapford Steeple -	158 32 0	
Coleridge Steeple -	46 20 30	18135
Lapford Steeple -	95 58 30	13218
Downe St. Mary	37 41	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
Coleridge Steeple -	8 56	6774	Southmolton -	48 11 0	53426
Lapford Steeple -	13 12	4607	Cotten Hill -	77 14 0	40827
Nymett Rowland Steeple	157 52 0		Roborough -	54 35 0	
Coleridge Steeple -	168 53 30	7341	Cotten Hill -	33 19 0	40328
Lapford Steeple -	4 24	18434	Belleview - -	96 14	22559
Brushford Spire -	6 42 30		Roborough -	50 27 0	
Lapford Steeple -	12 27 0	28913	Southmolton -	20 12 0	53459
Coleridge Steeple -	159 55 30	18160	Belleview -	54 53 0	22567
East Budleigh Steeple -	7 37 30		Roborough -	104 55	
Thelbridge Steeple -	18 53 30	24836	Harwood -	40 19 0	32799
Beacon Moor - -	39 18 30	12693	Cotten Hill -	84 30 0	21320
Chawleigh Steeple -	121 47 55		Atherington -	55 11 0	
Thelbridge Steeple -	11 30 30	33682	Harwood -	67 46 30	9780
Beacon Moor -	87 19 0	6727	Cotten Hill -	21 11 30	25046
Chumleigh Steeple -	81 10 30		Alverdiscott Steeple	91 2 0	
Southmolton -	136 29 0	34332	Parkham -	15 2	44592
Cotten Hill - -	18 46 30	73449	Belleview	80 41	11721
Molland Down -	24 44 30		Alverdiscott Steeple	84 17	
Southmolton - -	133 46 0	33783	Alverdiscott Steeple	55 35 0	14914
Cotten Hill - -	19 44 0	72256	Cotten Hill -	36 31 0	20676
Molland Clump - -	26 30 0		Yarnscombe Steeple	87 54 0	
Southmolton -	2 44	33962	Cotten Hill -	58 46 30	20675
Molland Down -	75 50	1670	Beacon Moor -	20 46 2	49851
Molland Clump -	101 26 0		Yarnscombe Steeple	100 27 10	
Molland Down -	60 30	5731	Northam -	40 23 0	27601
Molland Clump -	103 0 0	5119	Belleview -	52 3 0	22678
Twitchen Steeple -	16 30 0		Monkleigh Steeple	87 34 0	
Southmolton -	104 23 40	15067	Northam -	66 29	28522
Cotten Hill - -	16 47	50543	Belleview -	47 57	35221
Northmolton Steeple -	58 49		Buckland Brewer	65 34 0	
Southmolton -	28 23 30	41281	Northam - -	27 19 0	42490
Cotten Hill - -	67 0 30	21323	Belleview - -	98 7 0	19696
Atherington Steeple -	84 36 0		Little Torrington Steeple	54 34 0	
Southmolton -	5 53 0	26500	Roborough - -	43 58 0	28163
Cotten Hill - -	8 27 0	18485	Belleview - -	83 18 0	19687
Ewsdon Hill -	165 40 0		Little Torrington Steeple	52 44 0	
Southmolten - -	82 45 30	16256	Buckland Brewer -	72 54 0	12689
Cotten Hill - -	20 40 30	45534	Northam - -	26 4 0	27599
Warmford Hill -	76 34 0		Monkleigh Steeple -	81 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Langtree - -	43	19	0	17039
Belleview - -	31	2	0	22674
Monkleigh Steeple -	105	39	0	
Little Torrington Steeple	25	30	0	7797
Belleview - -	14	51	0	13097
Great Torrington -	139	39	0	
Buckland Brewer -	17	8	0	25662
Belleview - -	35	15	0	13099
Great Torrington -	127	37	0	
Langtree - -	42	39	0	33227
Belleview - -	71	50	0	23693
Beaford Spire - -	65	31	0	
Roborough -	82	39	0	10648
Belleview - -	26	28	30	23689
Beaford Spire - -	70	52	30	
Cotten Hill - -	46	22	0	30142
Belleview - -	63	31	0	24374
High Bickington -	70	7	0	
Cotten Hill - -	29	6	30	30147
Beacon Moor - -	25	19	30	34284
High Bickington -	125	34	0	
Monkleigh Steeple -	120	4	0	4184
Buckland Brewer -	14	18	0	15361
Frithelstock Steeple -	45	38	0	
Monkleigh Steeple -	96	38	0	10370
Buckland Brewer -	36	34	0	17289
Landcross Steeple -	46	48	0	
Belleview - -	26	53	0	21836
Monkleigh Steeple -	72	2	0	10380
Landcross Steeple -	81	5	0	
Buckland Brewer -	71	24	0	26242
Monkleigh Steeple -	80	9	0	25243
Port Hill House -	28	27	0	
Buckland Brewer -	125	4	30	8699
Monkleigh Steeple -	21	55	30	19066
Alwington Steeple -	33	0	0	
Parkham - -	23	10	0	42370
Northam - -	113	36	0	18178
Horwood Steeple -	43	19	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Northam - -	64	42	0	8894
Horwood Steeple -	29	13	0	16473
Bideford Steeple -	86	5	0	
Parkham - -	22	58	30	38392
Horwood Steeple -	64	53	30	16549
Barrow above Appledore	92	8	0	
Parkham - -	5	35	0	60937
Barrow above Appledore	165	5	0	23032
Braunton Spire -	9	20	0	
Parkham -	11	19	40	36075
Northam - -	117	24	0	7981
Westleigh Steeple -	51	10	20	
Buckland Brewer -	10	17	0	16751
Port Hill House -	17	2	0	10208
Windmill Hill near Bideford	152	41	0	
Windmill Hill -	68	32	0	8012
Port Hill House -	45	42	0	10411
Abbotsham Steeple -	65	46	0	
Northam - -	12	46	0	12176
Bideford - -	137	56	0	4016
Twelve Acres -	29	18	0	
Twelve Acres - -	36	19	0	38275
Northam - -	129	28	0	23363
Braunton Spire -	14	13	0	
Northam - -	115	3	0	38554
Westleigh Steeple -	55	10	0	42552
Baggy Point - -	9	47	0	
Buckland Brewer -	46	39	0	35911
Northam - -	81	34	0	26399
Alverdiscott Steeple -	51	47	0	
Northam - -	13	45	30	27506
Alverdiscott Steeple -	92	47	0	6549
Newton Tracey -	73	27	30	
Northam - -	94	11	0	27572
Belleview - -	36	38	0	46086
Heanton Punchardon Steeple - -	49	11	0	
Heanton Punchardon -	13	58	30	20075
Cotten Hill - -	19	49	30	14295
Barnstaple Spire -	146	12	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Barnstaple Spire -	157	26	0	3132
Cotten Hill -	4	0	0	17228
Pilton Steeple -	18	34	0	
Heanton Punchardon	34	57	0	10405
Cotten Hill -	13	43	40	25117
Fremington -	131	19	20	
Fremington -	46	46	0	20767
Cotten Hill -	54	15	0	8643
Roborough -	78	59	0	
Cotten Hill -	16	50	20	18620
Pilton Steeple -	96	13	40	5426
Roborough -	66	54	0	
Roborough -	125	42	0	9765
Pilton Steeple -	35	29	0	13661
Goodleigh Steeple	18	49		
Cotten Hill -	10	48	0	24847
Pilton Steeple - -	147	2	0	8556
Ashford Steeple -	22	10	0	
Span Head -	31	27		54638
Cotten Hill -	74	20		29608
Warkleigh -	74	13		
High Bickington	72	36		16000
Cotten Hill -	31	3		29602
Warkleigh -	76	21		
Paracombe Down	51	44		7314
Cotten Hill -		47		58316
West Station on the Down	126	28	20	
Cotten Hill -		20	30	55056
West Station -		29	0	3520
South West Station on Paracombe Down -	157	10	3	
West Station -	35	33	20	10068
South West Station	28	35	0	7489
Challacombe Steeple -	15	51	40	
West Station - -	68	44	40	7366
South West Station -	82	50	50	6518
Paracombe Steeple -	28	18	30	
Span Head - - -	28	22	0	16732
Paracombe Down -	[illegible]	[illegible]	[illegible]	[illegible]
Barrow west of Dureham	111	58	34	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Paracombe Down -	9	5	10	6498
Barrow west of Dureham	9	38	40	6126
Station east of Paracombe	161	16	10	
Paracombe Down -	48	13	20	17215
Station east of Paracombe	111	10	0	13767
Chimney of a Thatched House - -	20	36	40	
Paracombe Down -	31	15	0	162249
Cotten Hill - - -	133	10	50	115428
Hartland Point - -	15	34	10	
Paracombe Down -	4	32	30	62931
Cotten Hill - -	121	9	20	5827
Tawstock Steeple -	54	18	10	
Paracombe Down -	6	24		6209
Barrow west of Dureham	6	17		6324
Barrow near Longstone	167	19		
Paracombe Down -	15	29	10	6211
Station east of Paracombe	72	48		1736
Barrow near Longstone -	91	42	50	
Northmolton Ridge -	60	48	23	119590
Paracombe Down -	97	30	7	105301
Cotten Hill Summer House	21	41	30	
Northmolton Ridge -	59	1	47	180655
Paracombe Down -	107	20	37	162260
Hartland Point -	13	37	36	
Hangman Hill -	42	45		30992
Berry Down - -	108	27		22177
Slate Down -	28	48		
Hangman Hill -	47	0		15023
Berry Down - -	63	26		12284
Hill west of Berryn Arbor	69	34		
Bratton Down - -	7	43		34741
Hangman Hill - -	48	26		6241
Great Hangman -	123	50		
Bratton Down -	6	11	0	41412
Hangman Hill -	120	17	0	5165
Little Hangman -	53	32	0	
Hangman Hill -		4	0	22274
Slate Down - -	19	16	30	9469
Helesborrow - -	152	39	30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Helesburrow - -	10 45 30	6289
Slate Down - -	19 38 0	3494
Ilfracombe Steeple -	149 36 30	
Hangman Hill - -	31 0 0	47890
Paracombe Down -	101 58 20	25214
Countesbury Steeple -	47 1 40	
Sir Lawrence Palk's Tower	22 26 30	5149
Haldon Old Station -	98 28 30	1987
Haldon New Station -	59 5 0	
Haldon New Station -	118 39 0	12043
Palk's Tower - -	44 3 20	15199
Pleasure House Hill -	17 17 40	
Haldon New Station -	78 28 10	9294
Palk's Tower - -	70 7 50	9683
Ashwell Hill -	31 24 0	
Haldon New Station -	40 10 40	12042
Pleasure House Hill -	50 30 30	7770
Ashwell Hill -	89 18 50	
Haldon New Station -	17 59 0	21 20
Pleasure House Hill -	141 10 30	10 50
Hennock Steeple - -	20 50 30	
Pleasure House Hill -	90 40 0	[illegible]
Ashwell Hill -	52 55 10	[illegible]
Hennock Steeple -	36 24 50	
Haldon New Station	9 55 40	12058
Pleasure House Hill -	85 27 0	2085
Trusham Steeple -	84 37 20	
Hamilton Tor - -	95 42 0	24907
Rippon Tor -	45 41 0	34640
Moreton Hampstead Steeple - -	38 37 0	
Hamilton Tor -	61 50 0	24903
East Down - -	68 48 0	23547
Moreton Hampstead Steeple - -	49 22 0	
Rippon Tor - -	58 39 10	10374
East Down - -	52 0 30	11242
Barrow Hill - -	69 20 20	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Rippon Tor - -	20 54 10	34646
East Down - -	148 20 40	23553
Moreton Hampst. Steeple	10 45 10	
Barrow Hill - -	27 9 10	8078
Rippon Tor - -	49 10 0	4873
A Rock - -	103 40 50	
Barrow Hill -	42 54 0	5911
Rock - -	47 1 50	5499
Widdecombe Steeple -	90 4 10	
Rippon Tor - -	42 10 0	26233
East Down - -	112 2 0	18997
Bovey Tracey - -	25 48 0	
Denbury - -	45 28 0	16209
Rippon Tor - -	28 35 0	24149
Hele's Down - -	105 57 0	
Hele's Down - -	77 8 0	16954
Rippon Tor - -	39 3 0	26235
Bovey Tracey - -	63 49 0	
East Down - -	44 42 0	8835
Haldon Tor -	23 57 0	15309
Mamaton Steeple -	111 21 0	
Hele's Down - -	23 25 0	13689
Rippon Tor - -	25 9 0	12801
Islington Steeple -	131 26 0	
Rippon Tor - -	16 28 0	20280
Denbury - - -	23 39 0	14330
Cook's Beacon - -	139 53 0	
Cook's Beacon -	48 9 0	11987
Denbury - - -	54 39 30	10946
Tarcorn - - -	77 11 30	
Denbury - -	78 19 30	10952
Rippon Tor - -	19 27 30	32196
Tarcorn - -	82 13 0	
Rippon Tor - -	25 35 20	19377
Brent Ruins - -	15 27 30	31399
Ashburton Steeple -	138 57 10	
Ashburton Steeple -	78 16 10	9983
Rippon Tor - -	29 24 0	19911
Hall's Down - -	72 19 50	

Names of Stations and intersected Objects	Angles for Calculation			
Ashburton Steeple -	37	41	10	10577
Hall's Down - -	75	59	40	6664
Ashburton Down -	60	19	10	
Ashburton Down -	25	6		
Hall's Down - -	96	14		3310
Cook's Beacon -	58	40		
Ashburton Down -	53	42	0	17379
Cook's Beacon -	100	15	0	14234
West Ogwell Steeple -	26	3	0	
Ashburton Steeple -	46	51	9	6968
Ashburton Down -	41	10	40	7721
Cook's Beacon - -	91	58	20	
Ashburton Down -	129	1	10	8532
Cook's Beacon - -	26	51	10	14675
Hallsenger Summer House	24	7	40	
Ashburton Down -	130	49		5212
Cook's Beacon -	19	31		11807
Hallsenger Farm House	29	39	50	
Hele's Down - -	14	50	0	15263
Rippon Tor - -	24	23	0	33552
Denbury Steeple -	40	47	0	
Denbury - - -	88	8	0	31045
Tarcorn - -	73	52	0	35422
Hayton Rock - -	18	0		
Cook's Beacon -	26	50	0	23456
Denbury - -	33	28	30	34037
Hayton Rock - -	19	41	30	
Denbury - - -	67	20	0	16491
Tarcorn - - -	7	37	0	27282
High Week Steeple -	5	3	0	
Denbury - - -	98	42	30	8654
Tarcorn - -	34	54	0	14951
Ipplepen Steeple -	46	23	30	
Denbury - - -	22	34	0	8921
Tarcorn - - -	51	36	0	4369
Broad-Hempston Steeple	105	50	0	
Cook's Beacon -	35	8		15114
Denbury - -	77	14	30	8918
Broad-Hempston Steeple	67	37	30	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet
Cook's Beacon -	20	8		6748
Denbury - -	16	12	1	8324
Woodland Steeple -	143	39	50	
Denbury -	38	28	20	8321
Tarcorn - -	49	24	0	6015
Woodland Steeple -	92	7	40	
Denbury - -	55		20	28213
Tarcorn - -	192	42	0	23755
Hazewell Rock -	22	12	40	
Rippon Tor -	53	15	50	12962
Denbury - -	73	14	10	28240
Hazewell Rock -	97	30	0	
Denbury - -	78	56	10	9316
Cook's Beacon -	38	4	[illegible]	15784
Hobbin Wood's Gazebo	62	59	5[illegible]	
Cook's Beacon -	60	31		17385
Denbury - -	69	7		16198
Hele's Down - -	50	21	50	
Cook's Beacon -	22	27	50	15801
Hele's Down - -	65	14	50	6648
Hobbin Wood's Gazebo	92	17	20	
Tarcorn - -	35	47	30	19958
Rippon Tor - -	36	5	50	19814
Bickington Steeple -	108	6	40	
Cook's Beacon -	32	5		4889
Tarcorn - -	18	19		8263
Hele's House - -	129	36		
Tarcorn - - -	87	15		9762
Rippon Tor - -	17	5	0	33192
Buckfastleigh Station -	75	40	0	
Rippon Tor - -	10	52	40	29620
Buckfastleigh -	53	42	20	6935
Buckfastleigh Spire -	15	25	0	
Cook's Beacon -	53	10	0	32799
Denbury - -	01	29	0	26788
Totness Steeple -	25	21	0	
Totness Steeple -	85	10	10	7446
Marldon Beacon -	81	50	20	19945
Dartington Steeple -	72	59	30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Totness Steeple -	112° 4	7435	Horner Down -	22 44	25513
Willman Hill - -	19 2	21121	Square Close - -	124 29	11975
Dartington Steeple -	48 53		Rattery Spire - -	32 47	
Totness Steeple -	75 4 50	4168	Station near Totness -	73 12 4	9016
Willman Hill - -	14 2 40	16594	Flap Park - -	41 44 3	12965
Station South of Totness	90 52 30		Station near Harberton	65 2 5	
Station South of Totness	97 25 10	12278	Horner Down -	98 1	34511
Willman Hill - -	33 48 50	21882	Square Close - -	57 42 5	40424
Flap Park - -	48 46 0		Willman Hill - -	24 16 1	
Totness Steeple -	14 43 30	8143	Moreleigh -	30 47	22822
Willman Hill -	19 46 20	21866	Horner Down -	133 42	16161
Flap Park - -	45 30 30		Harberton Steeple -	15 30	
Totness Steeple -	97 15	8818	Moreleigh -	30 20 1	6623
Station near Totness -	58 53	10217	Horner Down -	50 52	43[illegible]3
Berry Pomeroy Steeple -	23 51		Moreleigh Steeple -	98 47 5	
Totness Steeple -	150 58 0	7853	Moreleigh - -	78 16 28	11261
Station near Totness -	19 3 30	11672	Higher East Close -	30 7 5	21966
Little Hempston Steeple	9 53 30		Wallaton Cross -	71 35 40	
Willman Hill - -	109 59 10	19550	Higher East Close -	79 54 20	15761
Marldon Beacon -	50 8 30	23934	Wallaton Cross -	38 56 20	24690
Churston Ferrers Steeple	19 52 20		Stoke Fleming Steeple	61 9 20	
Willman Hill -	105 53 0	26722	Horner Down -	10 6 3	31482
Marldon Beacon -	58 8 40	30260	Higher East Close -	134 13 30	7711
Windmill near Brixham	15 58 20		Station near Dittesham	35 40	
Willman Hill -	111 48 40	26589	Higher East Close -	12 38 20	10754
Marldon Beacon -	53 5 50	30870	Station near Dittesham	139 46 50	3644
Brixham Steeple -	15 5 30		Station near Dartmouth	27 34 30	
Willman Hill -	159 5 40	14686	Station near Dartmouth	93 13	7730
Marldon Beacon -	13 10 50	22982	Station near Dittesham	62 9	8729
Dittesham Steeple -	7 43 30		Townstall Steeple -	24 38	
Willman Hill -	159 23 30	15063	Higher East Close -	55 35	10341
Marldon Beacon -	13 7 0	23366	Station near Dittesham	77 39 40	8732
Cornworthy Steeple -	7 29 40		Townstall Steeple -	46 45 20	
Totness Steeple -	78 38 50	10331	Higher East Close -	42 56 50	10335
Marldon Beacon -	30 37 40	19881	Station near Dartmouth	65 38 10	7730
Warden House -	70 43 30		Townstall Steeple -	71 25	
Horner Down -	59 27 0	16779	Station near Dittesham	47 31	14907
Denbury - -	18 51 10	41717	Station near Dartmouth	20 17	18734
Square Close - -	101 41 50		Dartmouth Castle -	12 11	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet
	°	′	″	
Moreleigh -	109	6	40	11198
Butterton Hill -	12	6	30	50445
East Allington Steeple	58	46	50	
Horner Down -	34	23	20	15746
Church Stowe Steeple	25	57	0	20325
Black Down - -	119	39	40	
Butterton Hill -	8	51	4	63999
Church Stowe -	150	37	50	20078
Malborough Spire -	20	31	6	
Butterton Hill -	41	50	20	19635
East Beacon - -	127	27	50	16501
North Huish -	10	41	50	
Barrington - -	57	55	20	2069
Hemerdon Ball -	8	1	0	12570
Plympton St. Mary Steeple	114	3	40	
Barrington - -	33	15	0	2536
Hemerdon Ball -	6	56	20	11509
Plympton Steeple -	139	48	40	
Barrington - -	48	48	10	24366
Hemerdon Ball -	97	46	30	18504
Shaugh Steeple -	33	25	20	
Barrington - -	66	59	0	22405
Hemerdon Ball -	76	56	10	21169
Bickleigh Steeple -	36	4	50	
Barrington - -	165	37	40	11256
Hemerdon Ball	6	31	10	24609
Plympstock Steeple -	7	51	10	
Barrington -	153	39	10	14950
Station South of Yealmpton	10	23	50	36764
Eggbuckland Steeple	15	57	0	
Newton Down -	69	20	10	9020
Station South of Yealmpton	51	23	40	10726
Brixton Steeple -	58	46	10	
Newton Down -	28	49	20	12108
Station South of Yealmpton	97	51	20	5892
Yealmpton Steeple -	53	19	20	
Station South of Yealmpton	104	19	20	17572
Barrington - -	32	7	50	32014
Gonnor Signal Staff -	43	32	50	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	″	′	
Station South of Yealmpton	38	15	50	17578
Newton Down -	110	10	20	11596
Gonnor Signal Staff	31	33	50	
Gonner Down -	26	5	10	9093
West Down - -	130	39	30	5271
Wembury Steeple -	23	15	20	
Gonnor Down -	122	55	50	4195
West Down -	26	39	30	7847
Newton Ferrers Steeple	30	24	40	
East Beacon -	49	32	40	11952
Rippon Tor - -	9	56	0	52722
Three Barrow Tor -	120	31	20	
Three Barrow Tor -	33	16	0	5305
East Beacon -	21	9	50	8060
Stall Beacon -	125	34	10	
Three Barrow Tor -	130	35	30	9275
East Beacon - -	21	23	0	19317
White Barrow -	28	1	30	
Slopstor - -	45	57	40	14855
Hessary Tor - -	62	59	40	11985
Vixen Tor - -	71	2	40	
Station above Pen Beacon	69	50	30	6123
Barrington -	10	32	40	31413
Highest point of the Ridge of Rocks West of Pen Beacon - -	99	36	50	
Barrington -	121	50	0	4215
Hemerdon Ball -	12	47	40	16170
Clarke's Gazebo - -	45	22	20	
Hemerdon Ball -	73	45	27	19890
Station above Pen Beacon	52	16	20	24143
Ivy Bridge Race-house	53	58	13	
Hemerdon Ball -	73	31	10	28844
Station above Pen Beacon	66	16	40	30211
Roborough Clump -	40	12	10	
Rippon Tor -	8	56	0	39365
Ryders Hill -	118	13	50	6938
Knot Barrow - -	52	50	10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″			° ′	
Ryder's Hill -	4 42 30	23180	Cawsand Beacon -	30 13 40	28367
Hessary Tor -	12 47 40	8592	Castor Rock -	07 36	14982
Tor Royal Flagstaff	62 29 50		Siddaford Tor -	12 10 20	
Ryder's Hill -	16 23 50	27694	Cawsand Beacon -	29 29 10	25103
Hessary Tor -	57 51 20	9233	Castor Rock -	98 36 50	12497
Bare Down Chapel	105 44 50		Chagford Steeple -	51 54	
Hessary Tor -	96 31 20	20450	Cawsand Beacon -	24 58 30	42256
Ryder's Hill -	31 0 30	39439	Castor Rock -	35 46	25576
Beeryonder Tor -	52 28 10		North Bovey Steeple	19 15 30	
Hessary Tor -	13 6 20	20456	Cawsand Beacon -	17 53 20	15341
Cut Hill - -	27 58 20	9889	Castor Rock -	41 13 0	7152
Beeryonder Tor -	138 55 20		Gidley Steeple -	120 53 40	
Ryder's Hill -	45 51 40	24680	Cawsand Beacon -	46 1[illegible] 20	10380
Hessary Tor -	51 5 50	22759	Castor Rock	30 22 50	14[illegible]32
Bellever Tor -	83 2 30		Throwley Steeple -	103 22 50	
Ryder's Hill -	34 39 30	33870	Oakhampton Park	1 8 43	6226
Hessary Tor -	79 21 20	19598	Tes Tor - -	21 8 20	16351
Littlever Tor -	65 59 10		Oakhampton Steeple	50 8 40	
Rippon Tor -	38 58 20	20409	Oakhampton Park	30 35	21937
Cut Hill - -	18 35 0	40280	Tes Tor - -	116 46	12499
Quarnion Tor -	122 26 40		Sourton Tor -	32 39 0	
East Down -	32 23 1[illegible]	29737	Sourton Tor -	49 6	21541
Rippon Tor -	28 46 30	20430	Tes Tor -	95 37 50	16361
Quarnion Tor	18 50 20		Oakhampton Steeple	35 16 10	
Cocks Tor -	36 45 20	10686	Brent Tor -	39 19 30	38883
Hessary Tor -	36 58 10	10633	Black Down -	127 52 0	31213
Great Mis Tor -	106 16 30		Sourton Tor -	12 48 30	
Cut Hill - -	79 47	11509	Black Down -	15 44	11838
Beeryonder Tor -	55 17 0	13779	Sourton Tor -	9 12	20077
Siddever Tor -	44 56 0		Lydford Steeple -	155 4 0	
Cocks Tor -	1 29 50	21394	Black Down -	5 10	31699
Hessary Tor -	5 50	14212	Sourton Tor -	97 3	287[illegible]
Peak Beacon -	52 40 10		Sourton Steeple -	77 42	
Cut Hill - -	48 7 10	10999	Sourton Tor -	87 58 0	2007[illegible]
Tes Tor - -	24 52 30	19469	Sourton Steeple -	83 50 30	201[illegible]
Hewdeck Staff -	107 0 20		Lydford Steeple -	8 11 30	
Cut Hill - -	36 31 0	20411	Sourton Tor -	39 31 40	9805
Tes Tor - -	54 41 50	14883	Sourton Steeple -	126 54 10	7804
Great Links Tor	88 47 10		Bridestow Steeple -	13 31 10	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Black Down - -	12 36 0	11526
Cocks Tor - -	18 55 50	7750
St Peter Tavy Steeple	148 28 10	
Black Down - -	14 56 10	8078
Cocks Tor -	10 56 10	10974
St. Mary Tavy Steeple	154 7 40	
Morwell Down -	16 5 40	27084
Cocks Tor - -	75 22 30	7760
St. Peter Tavy Steeple	88 31 50	
Morwell Down -	22 12 50	28856
Cocks Tor - -	83 22 10	10983
Mary Tavy Steeple -	74 25 0	
Morwell Down -	20 1 20	11921
Cocks Tor - -	13 40 10	17271
Tavistock Steeple -	146 18 30	
Cocks Tor - -	32 9	29999
Leather Tor - -	101 32 50	16294
Hurlstone Rock -	46 18 10	
Hurlstone Rock -	36 20 50	18490
Leather Tor - -	82 42 50	11048
Sampford Spiney Steeple	60 56 20	
Hurlstone Rock -	27 40 10	14719
Leather Tor - -	64 31	7572
Sheepstor Steeple -	87 48 50	
Leather Tor - -	68 56 50	11051
Mary Tor - -	41 8 10	15678
Sampford Spiney Steeple	69 55 0	
Hurlstone Rock -	20 33 10	12007
Leather Tor - -	39 50 50	6579
Walkhampton Steeple -	19 36 0	
Cocks Tor -	16 55 50	19882
Leather Tor -	61 42 0	6576
Walkhampton Steeple -	01 22 10	
Leather Tor -	4 57	16097
Hurlstone Rock -	9 31	1412
Hurlstone Station -	95 32	
Hurlstone Rock -	47 1 10	8181
Hurlstone Station -	24 50 0	7292
Meavy Steeple -	8 8 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Hurlstone Station -	28 5	13890
Leather Tor -	59 34	7584
Sheepstor Steeple -	92 21	
Cocks Tor -	115 4 50	16769
Hessery Tor - -	32 9	28541
Whitchurch Steeple -	32 46 10	
Morwell Down -	13 38 40	11785
Cocks Tor - -	9 32 50	16765
Whitchurch Steeple -	156 48 30	
St. Budeaux - -	74 53 10	11945
Kit Hill -	14 35 50	45754
Stray Hill - -	90 31 0	
Stray Hill - -	15 27 0	6432
St. Budeaux -	16 36 40	5994
Witley - -	147 56 20	
Stray Hill -	4 20 0	5123
Witley - -	16 7 30	1380
Tamerton Foliot Steeple	159 22 30	
Stray Hill - -	100 12 10	8098
Witley -	45 22 20	11198
Beere Ferris Steeple -	34 25 30	

Triangles for the Survey of Cornwall.

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Stray Hill - - -	42 29 0	15625
St. Budeaux -	87 43 0	10561
Landulph -	49 48 0	
Kit Hill - -	28 46 40	181
St. Stephen's -	0 5 45	52081
Kit Hill New Station -	151 7 35	
Kit Hill New Station -	8 16 10	37501
St. Stephen's -	19 48 50	15913
Bare Head -	151 55 0	
Bare Head - -	82 25 10	29481
St. Stephen's -	67 38 10	31600
Bradwood Widger Steeple	29 56 40	
Bare Head -	101 35 0	30888
St. Stephen's	53 50 20	37478
Stowford Steeple	24 34 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Bare Head -	158 28 0	11399
St. Stephen's -	8 58 0	26844
Bradstone Steeple -	12 34 0	
Bare Head - -	144 35 10	15118
St. Stephen's -	17 14 20	29562
Kelley Steeple - -	18 10 30	
Bare Head - -	146 32 10	26930
St. Stephen's -	21 9 10	41151
Stoke Clymesland Steeple	12 18 40	
Bare Head - -	63 29	25319
St. Stephen's - -	78 30	23120
Lewannick Steeple -	38 0 50	
Kit Hill - -	26 14 20	44677
St. Stephen's -	58 42 10	23116
Lewannick Steeple -	95 3 30	
Kit Hill -	31 54 40	59699
St. Stephen's - -	87 27 0	31588
Bradwood Widger Steeple	60 38 20	
Kit Hill - -	1 8 20	49881
St. Stephen's -	24 9 10	2423
St. Stephen's Steeple	154 42 30	
Kit Hill New Station -	40 42 30	11560
Brent Tor - -	12 19 20	35330
Calstone Down -	126 58 10	
Kit Hill New Station -	93 12 40	35363
Calstone Down -	69 1 0	37814
Landrake Steeple -	17 46 20	
Kit Hill New Station -	97 16 30	36577
Calstone Down -	65 57 0	39732
Lawhitton Steeple -	16 46 30	
Kit Hill New Station -	86 38	26006
Calstone Down -	68 52 10	27832
Dunterton Steeple -	24 29 50	
Kit Hill New Station -	12 40 20	11029
Calstone Down -	32 46 0	18803
Stoke Clymesland Steeple	34 33 40	
Kit Hill New Station -	50 49 20	18946
Calstone Down -	91 35 30	14692
Sydenham Steeple -	37 35 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Kit Hill New Station	34 18 30	31245
Calstone Down -	128 58 20	22653
Lamerton Steeple	16 43 0	
Kit Hill New Station	83 54 0	12900
Calstone Down -	51 32 10	16381
Beverton Down -	44 33 50	
Beverton Down -	150 1 20	22735
Calstone Down -	17 28 50	37821
Landrake Steeple	12 30 0	
Beverton Down -	36 5 50	19058
Calstone Down -	85	11271
Calstone Steeple -	58 54 10	
Beverton Down -	83 32 0	23498
Kit Hill New Station	66 17 30	25501
St. Ive Steeple -	30 10 30	
Kit Hill Old Station	29 11 14	25390
Carraton Hill -	47 42 50	16736
St. Ive Steeple -	103 5 56	
Beverton Down -	78 1 0	43303
Kit Hill New Station	84 43 40	42539
St. Cleer Steeple -	17 15 20	
Beverton Down -	35 52 30	23897
Kit Hill New Station	114 46 40	15424
South Hill Steeple	29 20 50	
Kit Hill Old Station	19 31 2	19522
Carraton Hill -	15 22 32	15494
South Hill Steeple	145 6 26	
Beverton Down -	40 49 50	46472
Kit Hill New Station	126 1 5	37699
North Hill - -	12 58 20	
Beverton Down -	146 59 50	11106
Kit Hill New Station	15 14 0	23023
Pillaton Steeple -	17 46 10	
Kit Hill New Station	21 27	21217
Calstone Down -	136 32 20	11280
Calstone Steeple -	22 0 40	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
Liskeard Steeple from Bindown 22885 feet.				
	°	′	″	
Liskeard Steeple -	36	19	4	12391
Bindown - -	29	38	20	14844
St. Kean Steeple -	114	2	0	
Liskeard Steeple -	37	33	0	17888
Bindown - -	51	23	50	13950
Centre of Coldrinick House	91	3	10	
St. Cleer Steeple -	21	50	0	13949
Bindown - -	48	12	56	27967
Coldrinick House -	109	57	4	
Liskeard Steeple -	26	36	30	13979
Bindown - -	31	5	0	12127
Clicker Tor - -	22	13	30	
Liskeard Steeple -	20	1	45	13952
Menhiniott Steeple -	59	11	20	48,3
Clicker Tor -	100	46	55	
Liskeard Steeple -	34	1	40	13800
St. Cleer Steeple -	82	23	24	7791
East Chimney of Fosnooth House - -	63	34	56	
Liskeard Steeple -	118	44	40	13790
St. Kean Steeple -	32	26	20	23055
Fosnooth House -	28	49	0	
St. Cleer Steeple -	33	50	30	31869
Liskeard Steeple -	128	43	4	22548
Padderbury Beacon -	17	40	16	
Liskeard Steeple -	42	15	0	16359
Bindown New Station -	67	52	40	22538
Padderbury Beacon -	69	52		

N. B. In the last Triangle the distance between Liskeard Steeple and Bindown New Station is taken at 22845 feet.

Names of Stations and intersected objects.	Angles for Calculation			Distances in Feet.
Duloe - -	27	56	0	20805
Bindown Old Station	116	2[illegible]	0	10877
Penhale Signal Staff	35	42	0	
Liskeard Steeple -	42	16	0	23776
St. Cleer Steeple	107	46	24	16793
Berry Down -	29	57	56	
Bindown - -	14	59		27865
St. Cleer Steeple -	40	51	30	11012
Turret on the West end of Trengrobe House	124	9	28	
Carradon Hill -	59	33	13	25594
Liskeard Steeple -	68	19	0	23743
Berry Down - -	52	7	47	
St. Cleer - -	47	9	0	23739
Bindown - -	42	19	27	25848
Quethiock Steeple -	90	31	33	
Carradon Hill -	37	28	52	37353
Kit Hill - -	8[illegible]	32	43	23041
Millaton Steeple -	61	58	25	
Carradon Hill -	28	16	52	25330
Kit Hill - -	47	11	4	16361
Cadson Bury - -	104	32	4	
Carradon Hill -	48	27	37	47177
Kit Hill - -	86	31	43	35[illegible]77
Landrake Steeple -	45	0	40	
Kit Hill - -	30	21	4[illegible]	39148
Landrake Steeple -	85	23	0	19851
Padderbury Beacon -	64	15	2	
Padderbury Beacon -	50	24	30	8540
Landrake Steeple -	24	26	30	158[illegible]9
Freemen Trerule Foot	105	9	0	
Landrake - -	52	12	0	9961
Trerule-Tree -	38	56		12525
Ways Wandra House -	88	52	0	
St Stephen's Down -	18	41	30	29426
Kit Hill - -	21	9	35	6126
Dunterton Steeple -	140	8	55	
St. Stephen's Down -	58	42	57	22966
Kit Hill - -	25	57	32	44833
Lewannick Steeple -	95	20	21	
Bindown - -	52	28		10465
Penhale Signal Staff -	65	58		9436
St. Martin's Steeple -	61	34	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet
	°	′	″	
Bindown - -	42	44	0	11698
St. Martin's Steeple -	76	44	0	8156
West Chimney of Trevory Farm House -	60	32	0	
Bindown - -	91	59	11	24932
St. Cleer Steeple -	34	36	0	43780
Summer Lane Head -	53	24	49	
Bindown - -	25	10	30	25510
Landrake Steeple -	46	31	18	14954
Clump of Trees near Polbathick - -	108	18	12	
Bindown - -	47	56	0	22448
Landrake Steeple -	42	16	0	24777
St. German's Beacon -	89	48	0	
Bindown - -	11	27	30	23611
St. German's Beacon -	98	25	0	4742
St. Winnowe Steeple -	70	7	30	
St. German's Beacon -	51	48	30	25987
Bindown - - -	72	39	0	21390
House on Looe Island -	55	32	30	
Bindown - -	24	51	30	14980
St. German's Beacon -	35	25	0	10866
Penhale Signal Staff -	119	43	30	
Bindown - -	42	55	30	37087
Liskeard Steeple -	99	36	0	25617
Broad Oak Station -	37	28	30	
Liskeard Steeple -	28	7	0	26854
Broad Oak Station -	81	35	0	12793
Bury Hill Beacon - -	70	18	0	
Liskeard Steeple -	117	29	52	26816
St. Cleer Steeple -	43	44	50	34400
Bury Hill Beacon -	18	45	18	
Lansallos Station - -	87	9	0	12077
Boconnoc Obelisk -	21	43	0	30886
Lantaglos Barrow -	71	8	0	
Lansallos - -	49	48	0	12072
St. Veep Steeple - -	49	10	0	12188
Lantaglos Barrow -	81	2	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Lansallos - -	59	40	0	8059
St Veep Steeple -	30	45	0	13605
Gate near Pencarrow Point				
St. Veep Steeple -	86	4	0	11951
Lantaglos Barrow -	46	22	0	16474
House at Castle Dor -	47	34	0	
St. Veep Steeple -	41	56	0	22054
Lantaglos Barrow	105	58	37	15330
Greber Head Signal Staff	32	5	30	
St. Veep Steeple -	38	29	10	12313
Greber Head Signal Staff	31	40	32	14593
Castle Dôr Station -	109	50	18	
Greber Head -	18	20	0	14558
Lanlivery - -	14	58	0	17731
Castle Dôr - -	146	42	0	
Greber Head - -	38	35	0	13571
Castle Dôr - -	64	53	30	9347
Warehouse on Par Sands	96	31	30	
Greber Head - -	37	25	0	19024
Castle Dôr - -	92	39	0	11572
St. Blazey Steeple -	49	56	0	
Castle Dôr - -	27	46	0	9316
St. Blazey Steeple -	52	31	0	5469
Par Sands Warehouse -	99	43	0	
Greber Head -	40	50	0	23127
Castle Dôr -	100	56	30	15402
Prideaux Warren Steeple	38	13	30	
Greber Head -	115	13	0	19800
Castle Dôr - -	37	54	0	29161
Black Head - -	26	53	0	
Greber Head -	17	13	0	27423
Prideaux Warren -	110	42	0	8677
Carngrey Rock -	52	5	0	
Prideaux Warren -	86	28	0	8080
Carngrey Rock -	44	40	0	11472
Luxulian Steeple -	48	52	0	
Prideaux Warren -	61	32	0	13896
Luxulian Steeple -	83	12	0	12302
Barrow on Carleddon Down	35	16	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet
	°	′	″	
Bodmin Down -	43	41	0	18889
Lanlivery Steeple -	36	12	0	22090
The Highest Barrow on Four Barrow Hill -	100	7	0	
Bodmin Down -	37	33	0	10339
Lanlivery Steeple -	15	8	3	24126
Bodmin Beacon -	127	18	3	
Bodmin Down - -	81	14	0	10297
Four Barrow Hill -	30	30	0	20097
Bodmin Beacon -	68	16	0	
Bodmin Down - -	45	21	0	9076
Four Barrow Hill -	27	18	0	14079
Castle Kenyoc -	107	21	0	
Four Barrow Hill -	45	11	30	8729
Lanlivery Steeple -	21	14	0	17099
St. Nighton Station -	113	13	30	
Four Barrow Hill -	37	45	30	16580
Lanlivery Steeple -	48	30	0	13586
St. Winnow Station -	93	44	30	
Lanlivery Steeple -	27	16	0	13558
St. Nighton Station -	50	54	0	8003
St. Winnow Station -	101	50	0	
St. Winnow Station -	47	59	0	9614
St. Nighton Station -	77	38	0	7314
Restormel Castle -	54	23	0	
St. Winnow Station -	77	18	0	6089
St. Nighton Station -	41	43	0	8927
Lestwithiel Steeple -	61	1	0	
Bodmin Down -	59	13	0	24743
Four Barrow Hill -	73	40	30	22150
Helmen Tor - -	47	6	30	
Bodmin Down - -	93	17	0	25583
Four Barrow Hill -	51	26	50	32659
Lanivet Station -	35	16	10	
Bodmin Down -	12	59	0	6716
Bodmin Beacon -	21	41	0	4084
Bury Tower - -	145	20	0	
Bodmin Down -	40	34	0	22332
Four Barrow Hi -	82	27	0	14650
Chimney of Turnpike House	56	59	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	″	′	
Bodmin Down -	111	27	0	6333
Four Barrow Hill -	15	32	0	22009
Council Barrow -	53	1	0	
Bodmin Down -	81	42	0	13511
Four Barrow Hill -	38	17	0	21580
St. Belermine's Tor -	60	1	0	
Bodmin Down -	56	24	46	21923
Four Barrow Hill -	69	41	0	19475
Warleggon Church -	53	54	14	
Bodmin Down -	134	13	54	21951
Hensbarrow - -	14	5	36	64594
Warleggon Church -	31	40	3	
Bodmin Down -	46	36	0	28009
Four Barrow Hill -	91	0	0	22354
Direction Post, Crowland Cross . -	42	24	0	
Bodmin Down -	78	21	33	21810
Lanivet Station -	45	14	35	30082
St. Mabyn Steeple -	56	23	57	
Bodmin Down -	93	49	15	21786
Hensbarrow - -	24	1	0	53413
St. Mabyn Steeple -	62	9	45	
Bodmin Down -	42	44	0	29320
Bodmin Beacon -	119	26	0	22852
Barrow on St. Breock's Down - -	17	50	0	
St. Mabyn's Steeple -	42	48	0	25406
Brownwilly - -	33	49	0	31017
St. Teath Steeple - -	103	23	0	
Hensbarrow - -	8	42	45	63990
St. Mabyn Steeple -	135	19	30	13787
St. Kew Steeple -	35	57	41	
Bodmin Down -	144	58	39	28794
Hensbarrow -	13	7	5	72818
St. Bruard Steeple -	21	54	16	
Hensbarrow - -	4	17	46	65623
St. Mabyn Steeple -	157	42	24	12958
St. Tudy Steeple -	17	59	50	
Hensbarrow - -	6	34	56	86530
Cadon Barrow -	31	47	57	18824
St. Advent Steeple -	141	37	7	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
St. Bruard Steeple	12 13 0	19403	Brownwilly -	36 9	17123
Brownwilly -	53 49 0	5087	Tober - -	116 16	11250
Rough Tor -	113 58 0		Brocha Barrow	27 35	
St. Bruard Steeple	71 36	28682	Brownwilly -	24 2 0	17101
Brownwilly -	64 37	30124	Tober -	134 13 0	9718
Carburrow -	43 47 0		Four-holes Cross	21 45 0	
St. Bruard Steeple	45 15 0	15642	Carradon Hill	105 49 10	26198
Brownwilly -	45 24 0	15601	Bindown -	26 54	55710
Ox Tor -	89 21 0		Brown Gilley	47 16 50	
St. Bruard Steeple	19 26	25692	Brownwilley -	24 0 0	26810
Brownwilly -	104 49	8842	Carradon Hill	24 40 0	26120
Tober -	55 45 0		Brown Gilley	131 20	
St. Bruard Steeple	37 57 30	11161			
Tober -	22 7 0	18234			
Carbilley Tor	119 55 30				

ART. V. *Secondary Triangles for the Survey of the Western Part of Cornwall, Plate* V.

The Distances serving as Base Lines to the following Triangles are,

Pertinney to	Sennen -	17520 feet
	Karnminnis	41407
Karnbonellis to	Deadman - -	101084
	St. Erme Steeple -	66303
	Karnminnis -	71578
St. Agnes to	Hensbarrow -	97085
	Karnminnis -	84610
Hensbarrow to	St. Dennis Steeple -	15359
	St. Cubert Spire -	69141
	Deadman Signal Staff	59696
	St. Breoc Stone -	56571
Lansallos to Bodmin Down -		61497

Pertinney -	66 25 30	12751	Pertinney -	127 45 0	6090
Sennen Steeple	43 15 25	17054	Sennen Steeple -	12 46 10	21788
St. Buryan Steeple	70 19 5		Karngewney Station	39 28 50	
Pertinney - -	17 8 0	20077	Pertinney - -	21 55 0	26433
Sennen Steeple -	105 44 0	6145	Sennen Steeple -	125 22 0	12699
Bajester, New House	57 8 0		Karnkinnejack Rock	32 43 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	′	°	″	
Pertinney - -	14	46	0	24851
St. Buryan Steeple -	150	41	0	12937
Titterdieu Signal Staff	14	33	0	
Sennen Steeple -	14	27	0	16284
St. Buryan Steeple -	72	27	0	4262
Lear Farm -	93	6	0	
Sennen Steeple -	42	59	0	17512
St. Buryan Steeple -	70	26	0	12671
Pertinney Fire Beacon	66	35	0	
Sennen Steeple -	79	52	0	12857
St. Buryan Steeple -	40	33	0	19468
Levan Signal Staff -	59	35	0	
Sennen Steeple -	130	49	0	5632
St. Buryan Steeple -	11	37	0	21169
Pendennick Signal Staff	37	34	0	
St. Buryan Steeple -	98	29	0	12944
Levan Signal Staff -	30	55	0	24918
Titterdieu Signal Staff -	50	36	0	
St. Buryan Steeple -	8	32	0	11192
Levan Signal Staff -	11	11	0	8562
Tredrinnon Farm -	160	17	0	
Sennen Steeple - -	50	57	0	5641
Levan Signal Staff -	25	13	0	10283
Pendennick Signal Staff	103	50	0	
Sennen Steeple -	82	22	0	4920
Levan Signal Staff -	21	47	0	13141
Stone, Land's End -	75	51	0	
Levan Signal Staff -	5	14	0	12790
Stone, Land's End -	70	53	0	123
Arm and Knight's, Land's E	103	53	0	
Sennen Steeple -	93	47	0	19173
Stone, Land's End -	72	5	0	20107
The Sisters - -	14	8	0	
Pertinney - -	16	14	0	35000
Karnminnis -	51	25	40	12515
Rogers Tower, Castle Dennis - -	112	20	20	
Pertinney - -	48	4	0	68826
Karnminnis - -	95	7	10	51406
Tregonning Signal Staff	36	48	50	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Pertinney - -	9	10	0	24592
Karnminnis - -	12	53	0	17571
Barrow near Karn Galver	157	57	0	
Pertinney - -	0	7	30	41469
Karnminnis - -	124	29	0	109
Karn of Stones near Karnminnis - -	55	23	30	
Pertinney - -	9	10	0	24593
Karnminnis - -	12	53	0	17571
Karn near Karn Galver	157	57	0	
Pertinney - - -	13	20	0	38243
Rogers Tower -	104	5	0	9093
Ludgvan Steeple - -	62	35	0	
Pertinney -	68	14	30	12113
Rogers Tower -	20	14	30	32517
Karnkinnejack Rock -	91	31	0	
Pertinney -	36	14	0	22578
Rogers Tower -	38	29	0	18678
Chume Hill middle Karn	105	47	0	
Pertinney - -	20	1	0	21228
Rogers Tower -	25	46	0	16715
Steam Engine, Chume Hill	134	13	0	
Pertinney - -	14	31	40	27397
Rogers Tower -	38	39	0	10968
Mulfra Cromleche -	126	49	20	
Pertinney - -	29	26	0	39347
Rogers Tower -	87	50	0	19349
St. Michael's Mount -	62	44	0	
Pertinney -	21	39	0	22565
Mulfra Cromleche -	52	44	0	10461
Chume Hill Karn -	105	37	0	
Pertinney - -	86	38	0	12749
Ludgvan Steeple -	18	45	0	39595
St. Buryan Steeple -	74	37	0	
Pertinney - -	36	20	0	24067
Ludgvan Steeple -	37	6	0	23640
St. Paul's Steeple -	106	34	0	
St. Buryan -	23	28	0	18717
Ludgvan Steeple -	18	23	0	23633
St. Paul's Steeple -	138	9	0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
St. Buryan Steeple	67 55	12445	Pertinney - -	24 34	10864
St. Paul's Steeple	39 26	18171	Karnennis - -	38 47	7210
Beacon Hill Karn	72 39		KarnEast of Karnkinnejac	116 39	
St Buryan Steeple	8 52	12541	Pertinney - -	122 33	17520
Beacon Hill Karn	88 6 0	1934	Karnennis - -	30 38	28974
St Creed Steeple	83 2		Sennen Steeple -	26 48 2	
Ludgvan Steeple -	50 46	10907	Sennen Steeple -	23 49	20328
St. Paul's Steeple -	26 47	18749	Karnennis -	38 20 5	13231
St. Michael's Mount	102 27		Cape Cornwall -	117 50 1	
Ludgvan Steeple	61 45	9023	Ludgvan Steeple -	51 0	20509
St. Paul's Steeple	22 19	20933	St. Michael's Mount -	97 9	16063
Marazion Staff -	95 56		Gwavias Battery -	31 51	
Ludgvan Steeple	77 7	15561	Ludgvan Steeple -	42 57	26316
St. Paul's Steeple	36 57	25235	St. Michael's Mount -	14 59	19782
Perran St. Uthnoe Steeple	65 56 0		Mousehole Battery -	22 4	
Ludgvan Steeple	72 22 30	23052	Ludgvan Steeple -	61 11 3	13889
St. Paul's Steeple	52 50 0	27570	St. Michael's Mount -	70 54	12879
Caddan Point -	54 47 30		Penzance Spire -	47 54 3	
Pertinney - -	39 51	10267	St. Paul's Steeple -	3 47	21414
Karngewney -	05 14	6818	St. Michael's Mount -	51 39	2976
St. Just Steeple -	34 55 0		Marazion Chapel -	24 34	
Pertinney - -	49 6	9286	St. Paul's Steeple -	19 39 0	46452
Karngewney -	89 55	7019	St. Michael's Mount -	48 0	29477
Karnbesavern -	40 59 0		Tregonning Signal Staff	12 21	
Pertinney - -	34 49	15501	St. Paul's Steeple -	37	16671
Chume Hill -	41 56	13244	St. Michael's Mount -	61 22	11655
Karnennis - -	103 15 0		Gulval Steeple -	80 47	
Pertinney -	51 4 0	21224	St. Paul's Steeple -	21 42	17587
Karnennis - -	82 32 0	16605	St. Michael's Mount -	69 41	6934
Steam Engine, Chume Hill	46 24 0		Long Rock, Stone -	68 37 0	
Pertinney -	34 38 0	10243	Gwavias Battery -	41 35	22865
Karnennis - -	39 27 30	9160	Ludgvan Steeple -	7 21	15533
St. Just Steeple -	105 54 30		Perran, St. Uthnoe Steeple	61 4 0	
Pertinney -	43 52	9259	Gwavias Battery	58 11 0	25864
Karnennis -	36 1	10912	Ludgvan Steeple	72 38 0	23027
Karnbesavern -	100 7 0		Cuddan Point	49 11 0	
Pertinney - -	49 47 0	13824	Gwavias Battery	19 43 0	7282
Karnennis - -	58 5 0	12436	Ludgvan Steeple	10 12 0	3872
Flagstaff near St. Just	72 8 0		Penzance Spire	150 5 0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Gwavias Battery -	6	24	0	14436
Ludgvan Steeple -	14	38	0	6369
Long Rock Stone -	158	58	0	
Gwavias Battery -	20	50	0	6708
Long Rock Stone -	16	17	0	8508
Penzance Battery -	142	53	0	
Gwavias Battery -	5	6	0	18622
St. Michael's Mount -	146	20	0	2986
Marazion Chapel -	28	34	0	
Gwavias Battery -	19	37	0	26838
St. Michael's Mount -	135	39	0	12889
Acton Castle, -	24	44	0	
Tregonning Signal Staff	9	48	0	42098
Karnminnis - -	35	50	0	12242
Knill's Monument -	134	22	0	
Tregonning Signal Staff	33	42	0	29498
Karnminnis -	31	21	0	31458
St. Michael's Mount -	114	57	0	
Pertinney - -	5	42	0	51422
St. Michael's Mount -	156	58	0	12877
Acton Castle	17	40	0	
Tregonning Signal Staff	43	30	0	42084
St. Michael's Mount -	92	2	0	28987
Knill's Monument -	44	28	0	
Rogers Tower -	37	6	0	29400
St. Michael's Mount -	103	1	0	18202
Highest point of Clement's Isle - -	39	53	0	
Rogers Tower -	81	13	0	11549
St. Michael's Mount -	32	59	0	20965
Trecombe Hill Middle Karn - - -	65	48	0	
Tregonning Signal Staff	34	26	0	43157
St. Paul's Steeple -	66	1	0	26710
Rogers Tower -	79	33	0	
Tregonning Signal Staff	113	1	0	54856
St. Paul's Steeple -	36	38	0	84615
Windmill near the Lizard	30	21	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Pertinney - -	49	37	0	35025
St. Paul's Steeple -	87	3	0	20714
Rogers Tower -	43	20	0	
Rogers Tower -	81	54	0	10982
St. Paul's Steeple -	23	22	0	27413
Mulfra Cromleche -	74	44	0	
Rogers Tower -	48	45	0	29569
St. Paul's Steeple -	72	1	0	23373
Barrow east of Pertinney	59	14	0	
Rogers Tower -	30	33	0	14684
St. Paul's Steeple -	27	57	0	15851
Madern Steeple -	121	30	0	
Rogers Tower -	125	51	0	11559
St. Paul's Steeple -	15	38	0	34768
Trecombe Hill -	38	31	0	
Rogers Tower -	37	23	0	29388
St. Paul's Steeple -	79	20	0	18156
Beacon Hill, Karn -	63	17	0	
Rogers Tower -	106	45	0	12506
Barrow east of Pertinney	19	51	0	35268
Karnminnis -	53	24	0	
Rogers Tower -	51	35	0	10348
Karnminnis - -	53	8	0	10[illegible]
Trenk Hill - -	75	17	0	
Rogers Tower - -	73	31	0	10965
Karnminnis -	48	12	20	14103
Mulfra Cromleche -	58	16	40	
Rogers Tower -	13	36	0	13644
Karnminnis - -	103	11	0	32951
Watch, highest West Karn	63	13	0	
Rogers Tower -	49	25	20	15829
Karnminnis - -	79	34	0	12224
Knill's Monument -	51	0	40	
Karnminnis Karn -	19	50	0	18803
Pertinney - -	15	1	0	24622
Karn Galver, South Karn	145	9	0	
Karnminnis - -	24	0	0	28271
Knill's Monument -	139	46	30	17806
Vicarage St. Earth -	16	13	30	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Karnminnis - -	102	36	0	5773
Knill's Monument -	22	40	0	14621
White Down Barrow -	54	44	0	
Karnminnis - -	104	31	0	109
Knill's Monument -	0	29	40	12260
Karnminnis Karn -	74	59	20	
Karnminnis -	27	43	0	35650
Knill's Monument -	139	40	0	25444
Godrevy Island, highest Point - - -	12	57	0	
Rogers Tower - -	36	29	30	10262
Knill's Monument -	38	49	40	9733
Towednack Steeple -	104	41	0	
St. Agnes Beacon -	113	55	0	189
Karnminnis - -	0	7	0	84687
St. Ann's Summer House	65	58	0	
St. Ann's Summer House	21	43	0	56626
Karnminnis - -	33	9	0	38316
Gwynier Steeple -	125	8	0	
St. Ann's Summer House	4	21	0	74036
Karnminnis - -	27	20	0	12230
Knill's Monument -	148	19	0	
St. Ann's Summer House	47	56	0	32376
Karnminnis - -	20	53	0	67424
Karnbreh, highest Karn	111	11	0	
St. Ann's Summer House	49	17	0	31605
Karnminnis - -	20	30	0	68402
Karnbreh Castle -	110	13	0	
Knill's Monument -	40	9	0	26119
St. Ann's Summer House	17	18	0	56634
Gwynier Steeple -	122	33	0	
St. Ann's Summer House	8	2	0	27106
Karnbreh Karn -	34	23	0	6708
Redruth, Market House	137	35	0	
St. Ann's Summer House	27	21	0	30447
Karnbreh Karn -	69	8	0	14970
Lord de Dunstanville's House - -	83	31	0	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
	°	′	″	
St. Ann's Summer House	53	23	0	13559
Karnbreh Karn -	24	7	0	26617
West Barrow on Two Barrow Down -	102	30	0	
Gwynier Steeple -	20	4	0	18685
St. Ann's Summer House	9	19	0	39602
Camborne Steeple -	150	37	0	
St. Ann's Summer House	16	54	0	32388
Camborne Steeple -	47	33	0	12760
Karnbreh Karn -	115	33	0	
Karnbreh Karn -	80	5	0	11732
Camborne Steeple -	47	6	0	15777
Illogan Steeple -	52	49	0	
Karnbreh Karn -	84	41	0	20339
Camborne Steeple -	61	46	0	22988
Poltowen Signal Staff -	33	33	0	
Camborne Steeple -	19	59	0	37307
St. Ann's Summer House	70	24	0	13534
West Barrow on Two Barrow Down -	89	37	0	
Camborne Steeple -	143	48	0	5986
Gwynier Steeple -	8	33	0	23780
Karnbreh House -	27	39	0	
Camborne Steeple -	91	30	0	12086
Gwynier Steeple -	32	27	0	22517
Ruskejeage Down -	56	3	0	
Camborne Steeple -	83	3	0	17532
Gwynier Steeple - -	46	25	0	24026
Crowan Beacon -	50	32	0	
Gwynier Steeple -	41	4	0	23770
Ruskejeage Down -	73	36	0	16278
Karnbreh House -	65	20	0	
St. Ann's Summer House	69	11	0	20669
West Barrow - -	72	13	0	20289
Perran Steeple - -	38	56	0	
St. Ann's Summer House	31	27	0	17919
West Barrow - -	100	37	0	9512
North Barrow on Four Barrow Down -	47	56	0	

Names of Stations and intersected Objects	Angles for Calculation	Distances in Feet
	° ′ ″	
St. Ann's Summer House	85 11 0	33407
North Barrow - -	65 34 0	36564
Carter's Rock - -	29 15 0	
St. Ann's Summer House	53 26 0	25293
North Barrow - -	81 59 0	20515
St. Days Engine House	44 35 0	
St. Ann's Summer House	48 19 0	3626
North Barrow - -	9 54 0	15752
St. Agnes Spire -	121 47 0	
St. Ann's Summer House	65 34 0	30801
North Barrow - -	79 31 0	28519
Large Stone, Karnmarth Barrow - -	34 55 0	
West Barrow - -	123 4 0	13697
North Barrow -	34 2 30	20505
Engine House, St. Days	22 53 30	
Mulfra Cromleche -	22 53 0	7740
Karnminnis - -	23 21 0	7593
Gundry Karn - -	133 46 0	
Gundry Karn - -	0 47 40	7621
Karnminnis - -	104 22 0	108
Karnminnis Karn -	74 50 20	
Gundry Karn - -	129 21 0	9131
Karnminnis Karn -	27 46 0	15156
Rock on the Coast near Zennor - -	22 53 0	
Gundry Karn - -	41 26 0	3075
Karnminnis Karn -	20 57 0	5692
Karn, Zennor Hill -	117 37 0	
Rogers Tower - -	49 25 0	12623
Knill's Monument -	51 32 0	12244
Karnminnis Karn -	79 3 0	
Rogers Tower - -	73 32 0	11006
Karnminnis Karn -	48 0 0	14203
Mulfra Cromleche -	58 28 0	
Mulfra Cromleche -	113 3 0	7925
Karnminnis Karn -	22 51 0	18779
Karn Galver, South Karn	44 6 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Mulfra Cromleche -	111 54 0	10050
Karnminnis Karn -	27 27 0	20229
Karn Galver North Karn	40 39 0	
Rogers Tower - -	55 50 0	8715
Mulfra Cromleche -	49 54 0	9389
Frear Farm, New House	74 36 0	
Karnminnis - -	30 6 0	38316
Tregonning Signal Staff	46 28 0	26506
Gwynier Steeple -	103 26 0	
Karnminnis -	9 15 30	33848
Tregonning Signal Staff	16 50 0	18805
St. Hilary Spire -	153 54 30	
Karnminnis - -	8 56 30	43783
Tregonning Signal Staff	39 50 30	10622
East House at Karnegey	131 13 0	
Tregonning Signal Staff	49 39 0	10624
Knill's Monument -	12 57	30131
East House at Karnegey	117 24 0	
Tregonning Signal Staff	5 39 0	6215
East House at Karnegey	7 51 0	4480
St. Germowe Steeple -	166 30 0	
Tregonning Signal Staff	22 6 0	7719
East House, Karnegey	34 28 0	5526
Trewagias Farm -	105 26 0	
Tregonning Signal Staff	41 49 0	14611
East House, Karnegey -	91 34 0	9746
Girling Farm -	46 37 0	
Tregonning Signal Staff	128 33 0	5492
Gwynier Steeple -	8 10 0	30235
St. Breage Steeple -	43 17 0	
Gwynier Steeple -	45 41 30	19129
St. Breage Steeple -	39 3 0	21727
Crowan Steeple -	95 15 30	
Tregonning Signal Staff	25 50 0	10613
St. Breage Steeple -	131 17 0	6154
Sithney Steeple -	22 53 0	
Karnminnis - -	30 34 0	51400
Karnbonellis -	43 44 0	37811
Tregonning Signal Staff	105 [illegible] 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Karnminnis - -	27 5 0	44508
Karnbonellis - -	32 23 0	37835
Godolphin Hill -	120 32 0	
Karnbonellis - -	22 17 0	20898
Tregonning Signal Staff	23 13 0	20101
Saundry Hill Mine -	134 30 0	
Karnbonellis -	43 4 50	66343
Tregonning Signal Staff	103 13 15	46548
Park Loughs Signal Staff	33 41 55	
Karnbonellis - -	110 35 0	249
Tregonning Signal Staff	0 21 10	37900
Karnbonellis Barrow -	69 43 50	
Karnbonellis -	22 16 30	56379
St. Erme Steeple -	56 31 30	25620
St. Michael Penkeville	101 12 0	
St. Michael Penkeville	44 50 0	22762
St. Erme Steeple -	59 26 0	18638
St. Probus Steeple -	75 44 0	
St. Michael Penkeville	13 51 0	31419
St. Probus Steeple -	135 50 0	10794
Ladock Steeple -	30 19 0	
St. Probus Steeple -	81 22 0	26426
St. Erme Steeple -	60 41 0	29964
Trevidown - -	37 57 0	
Trevidown - -	64 18 0	11533
St. Probus Steeple -	25 52 30	23812
St Stephen's Steeple -	89 49 30	
Trevidown -	13 24 0	16807
St. Probus Steeple -	21 8 0	10803
Ladock Steeple -	145 28 0	
Trevidown - -	10 18 0	26425
St. Probus Steeple -	84 50 0	4744
Trewithen House	84 52 0	
Trevidown -	32 35 0	46555
St. Probus Steeple -	117 3 0	28151
St. Michael Carhais Steeple	30 22 0	
Trevidown - -	45 15 0	51209
St. Probus Steeple -	104 49 30	37620
St. Goran Steeple -	29 55 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Karnminnis -	32 37 0	84696
Karnbonellis -	89 42 0	45653
St. Ann's Summer House	57 41 0	
Karnbonellis -	64 27 0	56380
St. Ann's Summer House	67 14 40	55160
St. Michael Penkeville	48 18 20	
Karnbonellis -	22 54 0	243
St. Ann's Summer House	0 7 10	45431
Barrow Karnbonellis -	156 58 50	
Karnbonellis -	62 41 30	37509
St. Ann's Summer House	49 44 30	43673
Barrow close, Spry's Plantation Kea - -	67 34 0	
Karnbonellis Barrow -	113 11 0	14643
St. Ann's Summer House	14 54 0	52744
Stone, Stithians Down -	52 55 0	
Karnbonellis Barrow -	39 14 0	11980
Stone, Stithians Down -	54 43 0	9282
St. Stithians Steeple -	86 3 0	
St. Michael Penkeville	97 45 0	22754
St. Ann's Summer House	21 10 0	62442
St. Probus Steeple -	61 5 0	
St. Michael Penkeville	53 51 0	38166
St. Ann's Summer House	43 21 0	44895
Michaels Down Barrow	82 48 0	
Michaels Down Barrow	17 26 0	54396
St. Michael Penkeville	130 7 0	21310
St. Veryan Beacon -	32 27 0	
Michaels Down Barrow	23 52 0	26715
St. Michael Penkeville	38 12 0	17479
Kenwyn Steeple -	117 56 0	
Karnbonellis - -	87 21 0	246
St. Michael Penkeville	0 15 0	56368
Karnbonellis Barrow	92 24 0	
St. Michael Penkeville	39 29 0	27503
Karnbonellis Barrow -	26 27 0	39262
Three mile stone from Truro, towards Redruth - -	114 4 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
St. Michael Penkeville	13 5 0	47744
Karnbonellis Barrow -	47 35 0	14640
Stone, Stithians Down	119 20 0	
St. Michael Penkeville	145 48 0	22764
Karnbonellis Barrow -	9 39 20	76288
St. Probus Steeple -	24 32 40	
Karnbonell's Barrow -	8 17 0	81437
St. Probus Steeple -	110 10 0	12500
Tregoney Steeple -	61 33 0	
Knill's Monument -	7 6 30	10916
Gwynier Steeple -	5 3 0	15349
Lelant Steeple -	167 50 30	
Knill's Monument -	6 26 0	16075
Gwynier Steeple -	10 4 0	10304
Philiack Steeple -	163 30 0	
Knill's Monument -	88 25 0	8373
Gwynier Steeple -	17 55 0	27207
St. Ive's Battery -	73 40 0	
Knill's Monument -	93 56 0	6129
Gwynier Steeple -	12 58 30	27235
St. Ive's Steeple -	73 5 30	
Knill's Monument -	34 53 0	34712
Gwynier Steeple -	96 46 0	19991
Godolphin Hill -	48 21 0	
St. Ive's Steeple -	160 1 0	2358
Knill's Monument -	5 31 0	8384
St. Ive's Battery -	14 28 0	
St. Ive's Steeple -	71 23 0	16972
Knill's Monument -	87 28 0	16099
Philiack Steeple -	21 9 0	
St. Ive's Steeple -	52 30 0	13513
Knill's Monument -	101 4 0	10924
Lelant Steeple -	26 26 0	
St. Ive's Steeple -	123 10 0	21568
Knill's Monument -	45 12 0	25445
Godrevy Island, highest Point -	11 38 0	
St. Ive's Steeple -	13 19 0	1825
Knill's Monument -	5 31 0	4373
Tregenner Castle -	161 10 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Saundry Hill -	19 58 0	10821
Tregonning Signal Staff	20 24 30	10596
Sithney Steeple -	139 37 30	
Saundry Hill - -	29 33 0	13769
Karnbonellis -	37 17 0	11210
Crowan Beacon -	113 10 0	
Saundry Hill -	20 51 0	19289
Karnbonellis -	67 18 0	7442
Hangman Hill Barrow	91 51 0	
Saundry Hill - -	52 34 0	49322
Karnbonellis - -	12 20 0	18323
St. Wendron Steeple -	115 5 30	
Tregonning Signal Staff	17 54 0	35769
Park Loughs Signal Staff	41 18 30	16654
Cury Steeple - -	120 47 30	
Cury Steeple - -	36 53 0	14571
Tregonning Signal Staff	19 56 0	25051
Direction Post, Helston Down - -	123 11 0	
Cury Steeple - -	134 25 30	15681
Tregonning Signal Staff	13 28 20	48068
Dry Tree - -	32 6 10	
Park Loughs Signal Staff	36 17 0	256[illegible]
Cury Steeple - -	104 47 0	15084
Dry Tree - -	38 56 0	
Cury Steeple - -	84 20 6	6828
Dry Tree - -	24 20 30	16487
Mullyan Steeple -	71 13 30	
Cury Steeple - -	97 34 0	14558
Dry Tree - -	39 21 0	22761
Direction Post, Helston Down - -	43 5 0	
Park Loughs Signal Staff	46 42 0	30608
Dry Tree - -	78 15 0	22753
Direction Post, Helston Down - -	55 3 0	
Direction Post -	43 44 0	21379
Dry Tree - -	63 41 0	16488
Mullyan Steeple -	22 35 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Direction Post, Helston Down - -	120	51	0	13158
Dry Tree - -	20	57	0	31593
Wendron Mine -	38	12	0	
Tregonning Signal Staff	11	8	0	18343
Direc. Post, Helston Down	24	50	0	8433
Helston Steeple -	144	2	0	
Tregonning Signal Staff	20	7	0	60652
Dry Tree - -	113	4	0	22673
Grade Steeple -	46	49	0	
Tregonning Signal Staff	18	7	0	53472
Dry Tree - -	99	24	0	16853
Ruan Major Steeple -	62	29	0	
Tregonning Signal Staff	14	38	30	61026
Dry Tree - -	125	26	0	18932
Roscreage Fire Beacon	39	55	30	
Tregonning Signal Staff	72	49	0	37913
Dry Tree - -	44	43	0	51290
Karnbonellis Barrow -	63	8	0	
Dry Tree - -	64	44	0	43460
Roscreage Fire Beacon -	69	26	0	39304
Stithians Down, Stone	25	50	0	
Dry Tree - -	49	4	0	8866
Roscreage Fire Beacon	27	1	40	14740
St. Martin Steeple -	103	54	20	
Dry Tree - -	18	42	0	21539
Roscreage Fire Beacon	101	58	0	7059
St. Keverne Spire -	59	20	0	
Dry Tree - -	34	59	0	18593
Roscreage Fire Beacon	70	50	0	11286
Manacka Steeple -	74	11	0	
Dry Tree - -	63	9	30	42321
Roscreage Fire Beacon	90	15	30	37761
Haws Rock - -	26	35	0	
Dry Tree - -	65	44	30	26177
Roscreage Fire Beacon -	71	10	0	25274
St. Constantine Steeple	43	5	30	
Dry Tree - -	60	33	50	36758
Roscreage Fire Beacon	88	26	10	32025
Pillaston Karn -	31	0	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Dry Tree - -	24	12	0	28634
Roscreage Fire Beacon	121	27	0	13753
Mawnan Steeple -	34	21	0	
Dry Tree - -	5	0	0	36778
Stithians Down, Stone	25	10	0	7537
Pillaston Karn -	149	50	0	
Stithians Down, Stone	100	59	0	7545
St Michael Penkevile -	8	34	0	49723
Pillaston Karn -	70	27	0	
Dry Tree - -	6	32	0	38648
Pillaston Karn -	100	13	0	4686
Mabe Steeple -	63	15	0	
Pillaston Karn -	20	4	0	21820
Roscreage Fire Beacon	33	0	0	13746
Mawnan Steeple -	126	56	0	
Pillaston Karn -	70	36	0	14105
Roscreage Fire Beacon -	25	57	0	30405
St. Budock Steeple -	83	27	0	
Pillaston Karn -	80	51	0	43266
Roscreage Fire Beacon	59	31	0	49567
Gerrance Spire -	69	38	0	
Pillaston Karn -	84	5	0	37560
Roscreage Fire Beacon	53	0	0	46780
St. Teath Windmill -	42	55	0	
Pillaston Karn -	65	9	0	26538
Roscreage Fire Beacon	49	5	0	31868
St. Dennis Castle -	65	46	0	
St. Dennis Steeple -	106	54	0	13479
Hensbarrow Beacon	33	47	0	23194
Castle Ann Dennis -	39	19	0	
Hensbarrow Beacon -	42	36	0	23199
Cubert Spire - -	16	47	0	54381
Castle Ann Dennis -	129	37	0	
St. Agnes Beacon -	13	1	50	86805
Hensbarrow Beacon -	57	36	40	23202
Castle Ann Dennis -	109	21	30	
St. Agnes Beacon -	49	56	40	94651
Hensbarrow Beacon -	63	28	0	80978
Cow and Calf -	66	35	20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
St. Agnes Beacon -	34 48 0	62415
Castle Ann Dennis -	44 59 0	50391
St. Probus Steeple -	100 13 0	
Hensbarrow Beacon -	25 9 0	25699
Castle Ann Dennis -	90 21 0	10922
St. Wenne Steeple -	64 30 0	
Hensbarrow Beacon -	25 5 0	7927
Castle Ann Dennis -	11 51 0	16365
St. Roach Steeple -	143 4 0	
Hensbarrow Beacon -	57 22 0	26753
Castle Ann Dennis -	68 44 0	24176
Trevidown - -	53 54 0	
Hensbarrow Beacon -	19 48 0	18356
Castle Ann Dennis -	46 23 0	8589
Belovely Down Barrow	113 49 0	
Cubert Spire - -	34 32 0	14680
Castle Ann Dennis -	11 8 0	43099
Newlyn Steeple -	134 20 0	
Newlyn Steeple -	58 29 0	24391
Castle Ann Dennis -	34 [illegible] 0	36788
Mawgan Rock -	87 6 0	
St. Agnes Beacon -	17 23 0	43843
Cubert Spire -	116 48 0	14675
Newlyn Steeple -	45 49 0	
Trevidown - -	13 35 0	8205
Castle Ann Dennis -	6 47 0	16315
Barrow near the Indian Queen -	159 38 0	
Trevidown - -	82 27 0	9516
Castle Ann Dennis -	22 22 0	24791
St. Enodore Steeple -	75 11 0	
Stone, St. Breoc's Down	30 48 0	364
Hensbarrow Beacon -	0 17 40	36259
St. Breoc's Barrow -	148 54 20	
Hensbarrow Beacon -	6 20 30	25728
St. Breoc's Barrow -	14 53 0	11059
Wenne Steeple -	158 46 40	
Hensbarrow Beacon -	38 30 50	34125
St. Breoc's Barrow -	65 47 0	23300
St. Columb Major Steeple	75 42 10	

Namesof Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Hensbarrow Beacon -	81 17 0	74936
St. Breoc's Barrow -	71 24 50	78135
St. Cubert Rock -	27 18 10	
Hensbarrow Beacon -	9 19 0	38390
St Breoc's East Barrow	104 39 0	6425
St. Breoc's West Barrow	66 2 0	
St. Breoc's East Barrow	38 54 0	6432
St. Columb Major Steeple	12 27 0	18735
West Barrow -	128 39 0	
St. Breoc's East Barrow	43 25 0	17439
West Barrow -	117 30 0	13513
St. Issey Steeple -	19 5 0	
St. Breoc's East Barrow	68 12 0	45583
West Barrow -	103 56 0	43606
Rock, mouth of Alan River - -	7 52 0	
Karnbonellis - -	91 34 36	72565
Deadman - -	35 8 2	126045
Grade Steeple -	53 17 22	
Lansallos - -	39 54 10	67329
Bodmin - -	77 9 30	44299
Roach Steeple -	62 56 20	
Deadman Signal Staff	51 52 0	15512
Hensbarrow Beacon -	13 40 56	51582
St. Michael Carhais Steeple	114 27 4	
Deadman Signal Staff -	8 39 0	49757
Hensbarrow Beacon -	35 28 0	12897
Old Watch Barrow -	135 53 0	
Deadman Signal Staff -	9 36 0	40245
Old Watch Barrow -	33 40 0	12107
Unanimity Mine -	136 44 0	
Deadman Signal Staff	40 35 0	43536
Old Watch Barrow -	59 29 0	32876
St. Probus Steeple -	79 56 0	
St. Probus Steeple -	66 28 0	22579
Deadman Signal Staff	30 57 0	40252
Unanimity Mine -	82 35 0	
St. Probus Steeple -	10 46 0	37491
Deadman Signal Staff	46 15 0	9695
Goran Steeple -	122 59 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″			° ′ ″	
St. Probus Steeple -	69 8 30	37477	Old Watch Barrow -	19 34 0	21408
Old Watch Barrow	60 51 0	40099	St. Austle Steeple -	130 5 0	9371
Goran Steeple -	50 0 30		Penrice House -	30 21 0	
Unanimity Mine -	40 59 0	43077	Old Watch Barrow -	12 12 0	4255
Deadman Signal Staff	74 42 0	29290	St. Austle Steeple -	5 9 0	10019
Veryan Beacon -	64 19		Mawnan, or Grey Rock	162 39 0	
Goran Steeple -	19 44 0	33674	Old Watch Barrow -	14 14 0	11029
Old Watch Barrow -	53 32 0	14138	St. Austle Steeple -	38 8 0	4391
St. Austle Steeple -	106 44		Mawnan Hill -	127 38 0	

ART. VI. *Secondary Triangles for the Survey of Dorsetshire. Plate* VI.

Wingreen - -	65 42 0	22265	Wingreen - -	63 31 30	36967
Bulbarrow - -	18 43 0	63239	Trinity Steeple -	80 5 0	33592
Trinity Steeple, Shaftsbury	95 35 0		Hamilton Hill - -	36 23 30	
Wingreen - -	35 29 0	17274	Wingreen - -	46 27 0	14207
Bulbarrow - -	10 20 0	55899	Trinity Steeple -	39 32 0	16177
Melbury Hill -	134 11 0		Direction Post, Blandford Road - -	94 1 0	
Wingreen - -	56 45 0	33099	Wingreen - -	8 58 0	33262
Bulbarrow -	28 32 0	57949	Trinity Steeple -	153 55 0	11791
Duncliffe Hill - -	94 43 0		Duncliffe Hill -	17 7 0	
Wingreen - -	56 54 0	59304	Wingreen - -	41 27 0	45043
Bulbarrow - -	53 34 0	61749	Trinity Steeple -	111 5 0	31956
Badbury Rings -	69 32 0		West Knoyle Steeple -	27 28 0	
Wingreen - -	99 38 6	87990	Wingreen - -	19 55 0	25081
Bulbarrow - -	45 59 45	120602	Trinity Steeple -	98 45 0	8641
Ringwood Steeple -	34 22 9		Kingsettles -	61 21 0	
Wingreen - -	81 34 8	57251	Wingreen - -	143 33 0	9152
Bulbarrow - -	43 1 54	82989	Trinity Steeple -	10 24 0	30121
Horton Gazebo -	55 23 58		Winklebury Obelisk -	26 3 0	
Wingreen - -	45 26 18	75778	Wingreen -	37 29 0	19605
Bulbarrow - -	73 36 13	56280	Trinity Steeple -	60 39 0	13687
Trenchard's Tower	60 57 29		Ticklepath Hill -	81 52 0	
Wingreen - -	64 31 0	57412			
Trinity Steeple -	92 41 30	51886			
Bellchalwell Telegraph	22 47 30				

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Wingreen - -	110	55	0	21048
Trinity Steeple -	33	26	0	35684
Barrow near the seven mile stone on the Salisbury Road - - -	35	39	0	
Ticklepath Hill -	56	1	0	24319
Wingreen - -	73	24	0	21043
Barrow, seven mile Stone	50	35	0	
Wingreen - -	15	30	0	28477
Barrow, seven mile Stone	130	2	0	9939
Castle Ditches -	34	28	0	
Wingreen - -	35	14	0	15563
Barrow, seven mile Stone	47	8	0	12250
Manwood Clump -	97	38	0	
Wingreen - -	16	8	0	15612
Barrow seven mile Stone	35	39	0	7444
Windmill Hill -	128	13	0	
Wingreen - -	95	14	0	57412
Bradley Knoll -	36	29	0	96157
Bellchalwell Telegraph	48	17	0	
Wingreen - -	8	20	0	11132
Bradley Knoll -	61	26	0	67464
Stour Head Obelisk -	110	14	0	
Wingreen - -	18	13	0	65737
Bradley Knoll - -	64	53	0	22696
Pen Selwood Steeple -	96	54	0	
Wingreen - -	11	51	0	75712
Bradley Knoll - -	97	25	0	15679
Alfred's Tower -	70	44	0	
Wingreen - -	35	36	0	33972
Bradley Knoll - -	23	59	0	48053
Font-hill Abbey -	120	25	0	
Wingreen -	16	10	0	14195
Melbury Hill -	47	21	0	5373
Direction Post, Blandford Road - -	116	29	0	
Wingreen - -	126	27	0	13000
Melbury Hill -	22	42	0	27097
White Sheet Barrow -		51	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Barrow, seven mile Stone	79	47	0	9671
Ticklepath Hill	22	50	0	24526
Firs, Castle Ditches	77	23	0	
Wingreen -	11	54	0	68230
Bellchalwell Telegraph	123	35	0	16888
Houghton Down Clump	44	31	0	
Wingreen - -	44	38	0	37316
Bellchalwell Telegraph	40	21	0	40492
Blandford Telegraph	95	1	0	
Wingreen - -	33	49	0	67875
Bellchalwell Telegraph	88	27	0	37789
Clump of trees beyond Blandford - -	57	44	0	
Trinity Steeple -	97	40	0	21614
Bullbarrow - -	17	57	0	69506
Gillingham Spire -	64	23	0	
Trinity Steeple -	13	28	0	38144
Bullbarrow - -	18	46	0	27612
Sturminster Steeple -	147	46	0	
Ticklepath Hill -	40	55	0	16998
Wingreen - - -	58	44	0	13025
White Sheet Barrow	80	21	0	
Melbury Hill -	21	54	0	33762
Bull Barrow - -	27	8	0	27612
Sturminster Steeple -	130	58	0	
Bullbarrow - -	15	19	0	33497
Sturminster Steaple	117	57	0	10017
Manston Steeple -	46	44	0	
Horton Gazebo -	92	26	0	24811
Wingreen - -	23	2	0	63354
Pistle Down Telegraph	64	32	0	
Horton Gazebo -	135	15	20	4230
Pistle Down Telegraph	6	6	40	27974
Chalbury Telegraph -	38	38	0	
Horton Gazebo -	50	21	0	34140
Pistle Down Telegraph	83	26	0	26460
Pentridge Hill -	46	13	0	
Pentridge Hill -	20	21	0	13607
Pistle Down Telegraph	19	3	0	14497
Cranborne Steeple -	140	36	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Pentridge Hill -	125	44	0	23969
Pistle Down Telegraph	25	41	0	44895
White Farm House on high ground -	28	35	0	
Pentridge Hill - -	53	57	0	9638
Pistle Down Telegraph	20	33	0	22201
Direction Post near Bottle Clump - -	105	30	0	
Pentridge Hill - -	99	14	0	27363
Pistle Down Telegraph	41	13	0	41002
Inn, new Buildings Blandford Road - -	39	34	0	
Pistle Down Telegraph	75	22	0	62782
Wingreen - -	51	59	0	77111
Salisbury Spire -	52	39	0	
Pistle Down Telegraph	58	26	0	27920
Wingreen - -	26	1	0	54234
Chalbury Telegraph -	95	33	0	
Pistle Down Telegraph	18	52	0	26454
Wingreen - -	12	35	0	39265
Pentridge Hill -	148	33	0	
Wingreen - -	21	17	0	50690
Pentridge Hill - -	113	25	0	20051
Summer House on the Wimborne Road from Cranborne - -	45	18	0	
Wingreen - -	32	32	0	29443
Pentridge Hill - -	47	38	0	21431
Caishmoor Windmill -	99	50	0	
Wingreen - -	12	37	0	48851
Pentridge Hill -	128	14	0	13584
Cranborne Steeple -	39	9	0	
Pentridge Hill - -	79	38	0	14397
Direction Post, Bottle Hill	63	33	0	15818
Handley Steeple -	36	49	0	
Wingreen - -	23	40	0	37993
Kingsettles - -	122	30	0	18084
East Knoyle Windmill	33	50	0	
Wingreen - -	25	38	0	35635
Kingsettles - -	114	34	0	16951
East Knoyle Steeple -	39	48	0	

Names of Stations and intersected objects.	Angles for Calculation			Distance in Feet.
	°	′	″	
Wingreen - -	46	25	0	33969
Kingsettles - -	86	8	0	24661
Font-Hill Abbey -	47	27	0	
Wingreen - -	52	38	0	20656
Kingsettles - -	52	37	0	20661
Wardour Castle -	74	45	0	
Wingreen - -	36	55	0	26665
Kingsettles - -	76	47	0	16452
Pit House - -	66	18	0	
Trinity Steeple -	38	10	0	8626
Ticklepath Hill -	37	40	0	8723
Kingsettles - -	104	10	0	
Kingsettles - -	70	45	0	8958
Ticklepath Hill -	55	42	0	10238
Sedgehill House -	53	33	0	
Kingsettles -	24	41	0	9526
Ticklepath Hill -	89	2	0	3979
Semley Steeple -	66	17	0	
Duncliffe - -	48	50	0	34213
Bullbarrow - -	36	1	0	43800
Stalbridge House -	95	9	0	
Duncliffe - -	33	5	0	19382
Bullbarrow - -	14	14	0	43029
Marnhull Steeple -	132	41	0	
Trinity Steeple -	28	14	0	34708
Gillingham - -	118	38	0	18706
Mere Steeple - -	33	8	0	
Trinity Steeple -	22	32	0	33323
Mere Steeple - -	72	54	0	13361
Silton Steeple - -	84	34	0	
Sturminster Steeple -	42	21	0	7045
Trinity Steeple -	8	12	0	33278
Hinton Steeple -	129	27	0	
Hinton Steeple -	53	53	0	27255
Trinity Steeple -	51	59	0	27947
Iwerne, Minster Steeple	74	8	0	
Hinton Steeple -	93	21	0	19643
Trinity Steeple -	29	40	0	39618
Shillingstone - -	56	59	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Hinton Steeple -	16	10		19380
Shillingstone - -	79	12		5493
Child Okeford -	84	38		
Wingreen - -	21	26	30	54248
Badbury Rings -	66	2	4	21700
Chalbury Telegraph -	92	30	45	
Badbury Rings -	9	55	30	25048
Chalbury Telegraph -	124	32	30	5241
Hauton New Inn -	45	32	0	
Badbury Rings -	70	56	0	17720
Chalbury Telegraph -	46	28	0	23101
Wimborne Steeple -	62	36	0	
Hauton New Inn -	55	5	0	11526
Chalbury Telegraph -	98	10	0	9547
Wichampton Steeple -	26	45	0	
Hauton Gazebo -	135	15	20	4230
Pistle Down Telegraph -	6	6	40	27974
Chalbury Telegraph -	38	38		
Wingreen - -	45	38		37312
Hamilton Hill - -	67	49		28805
Blandford Telegraph -	66	33		
Blandford Telegraph -	43	42		4855
Bellchalwell Telegraph -	5	11		37132
Twiss Barrow - -	31	7		
Twiss Barrow - -	24	46		6829
Blandford Telegraph -	32	40	0	10394
Busbury Barrow -	22	34	0	
Twiss Barrow -	69	9		10865
Busbury Barrow -	73	44	0	10576
Blandford Steeple -	37	7		
Blandford Steeple -	69	28	0	8119
Busbury Barrow -	44	32	0	10841
Station above Charleton -	6	0	0	
Blandford Steeple -	56	36		8106
Twiss Barrow - -	30	31		15299
Station near Charleton -	42	53		
White Sheet Barrow -	31	51		26588
Font-hill Abbey -	85	32		14073
Ridge Hill Clump -	62	37	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
White Sheet Barrow -	52	40		36516
Ridge Hill - -	81	18	0	29373
Compton Hut Clump -	46	2	0	
Ridge Hill - -	136	28		4094
White Sheet Barrow -	5	27	0	29690
Chilmark Spire -	38	5	0	
Wingreen - -	38	12		47339
Ridge Hill - -	85	54		29350
Compton Hut Clump -	55	54		
Font-hill Abbey -	3	15	0	48381
Compton Hut Clump -	157	43	0	7233
Clump east - -	19	2	0	
Compton Hut Clump -	48	2	30	8088
Clump east - -	73	7	0	6285
Barford St. Martin Steeple	58	50	30	
Compton Hut Clump -	127	25	0	12274
Clump east - -	33	34	0	17632
Baverstock - -	19	1	0	
Compton Hut Clump -	10	17	0	16286
Clump east - -	161	42	0	9259
Wilton Steeple -	8	1	0	
Nine Barrow Down -	24	8	36	65052
Ringwood - -	38	51	15	42415
Christ Church -	117	0	9	
Christ-Church - -	91	20	10	50242
Ringwood -	49	2	59	66503
Poole Steeple -	39	36	51	
Nine Barrow Down -	47	44	54	29399
Christ-Church -	25	39	58	50242
Poole Steeple -	06	35	8	
Nine Barrow Down -	48	33	16	83428
Christ Church - -	81	4	0	63303
Hauton Gazebo -	50	22	44	
Nine Barrow Down -	25	50	30	23101
Christ-Church - -	12	49	0	45392
Brownsea Castle -	41	20	30	
Nine Barrow Down -	21	54	20	23101
Poole Steeple - -	47	15	12	11736
Brownsea Castle -	10	50	28	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet
Christ-Church -	14	14	32	37604
Brownsea Castle - -	45	58	2	12868
Poole Heath east Station	119	47	26	
Poole Steeple - -	63	28	0	12682
Brownsea Castle -	61	51	0	12868
Poole Heath east Station	54	41	0	
Brownsea Castle -	107	49	2	11737
Christ-Church - -	12	51	2	50242
Poole Steeple - -	59	19	56	
Black Down - -	8	7	40	102511
Nine Barrow Down -	29	48	20	29158
Wareham Steeple -	142	4	0	
Christ-Church - -	41	58	0	25111
Hauton Gazebo -	20	37	0	47688
Maesbarrow - -	117	25	0	
Christ Church - -	18	22	0	13837
Maesbarrow - -	20	0	0	12748
House near Decoy Ponds	141	38	0	
Maesbarrow - -	5	53	0	28892
Hauton Gazebo -	8	53	0	19178
Cannon Hill - -	165	14	0	
Poole Heath - -	90	3	0	30130
Christ Church - -	38	41	0	48206
Old Harry - -	51	16	0	
Poole Heath - -	97	32	0	32481
Christ-Church -	37	34	0	52813
Stutland Signal Staff -	44	54	0	
Wareham Steeple - -	58	3	0	20480
Black Down - -	10	44	0	93306
Woolbarrow Station -	111	13	0	
Poole Steeple - -	30	13	0	9919
Poole Heath - -	50	28	0	6467
Constitution Hill - -	99	19	0	
Poole Steeple - -	96	1	30	8221
Poole Heath - -	31	7	0	15820
Brownsea Clump -	52	51	30	
Poole Heath - -	105	16	0	8462
Brownsea Castle -	23	10	0	15848
Constitution Hill -	51	34	0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet
Poole Steeple - -	59	47	0	11867
Constitution Hill -	68	58	0	10982
Lilliput House -	51	15	0	
Poole Steeple - -	65	13	0	15679
Constitution Hill -	76	48	0	14621
Lilliput Lookout -	37	59	0	
Constitution Hill -	112	37	0	19518
Brownsea Castle -	37	39	0	29496
Lytchet Beacon -	29	44	0	
Poole Heath - -	93	22	0	25787
Brownsea Castle -	60	48	30	29488
Lytchet Beacon -	25	49	30	
Poole Steeple - -	31	41	30	17088
Constitution Hill -	117	16	30	10100
Station on the Wimborne road from Poole -	31	2	0	
Lytchet Beacon -	30	55	0	15587
Constitution Hill -	52	30	0	10095
Station on the Wimb. road	96	35	0	
Wareham Steeple -	64	59	0	29960
Woolbarrow - -	73	57	0	28250
Lytchet Beacon -	41	4	0	
Wareham Steeple -	37	34	0	41949
Lytchet Beacon -	97	20	0	25787
Poole Heath -	45	6	0	
Wareham Steeple -	42	39	0	14328
Poole Heath -	17	10	30	32876
Black hill near Wareham	120	10	30	
Lytchet Beacon -	26	20	30	40288
Wareham Steeple -	110	54	0	19581
Corfe Castle -	42	45	30	
Poole Heath -	27	21	0	40910
Wareham Steeple -	73	22	30	19615
Corfe Castle -	79	16	30	
Wareham Steeple -	43	42	0	14948
Lytchet Beacon -	28	20	0	21759
Arne Clump -	107	58	0	
Woolbarrow -	133	58	30	17603
Wareham Steeple - -	21	10	30	35070
Black hill near Wareham	24	51	0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Black Hill - -	96 35 0	41431
Poole Heath -	47 34 0	55764
Swyre Barrow -	35 51	
Wingreen - -	10 38 14	125534
Nine Barrow Down	73 32 14	24163
Creech Beacon -	95 49 32	
Wingreen - -	27 4 38	57250
Nine Barrow Down	18 12	83422
Hauton Observatory	134 43 13	
Ringwood - -	58 44 0	7946
Christ Church -	10 3 30	38888
David's Hut -	111 12 30	
Ringwood - -	48 50	32690
Christ-Church -	53 33	34930
Hembury Summer House	77 37 0	
Christ-Church -	38 59 0	38909
Hembury Summer House	79 10 0	24922
David's Hut -	61 51 0	
Ringwood - -	7 3 30	24435
Hembury Summer House	19 35 0	8958
Gibbet on Parley Common	53 21 30	
David's Hut - -	11 6	16881
Hembury Summer House	21 15	8967
Gibbet on Parley Common	47 39	
David's Hut - -	8 38 0	22298
Hembury Summer House	49 19 0	4413
Barrow near Hembury	22 3 0	
David's Hut -	17 0 0	28853
Barrow near Hembury -	122 7 0	9960
Cannon Hill - -	40 53 0	
Woolbarrow -	59 9 0	28829
Black Hill - -	83 30 0	24910
Musson Down -	37 21 0	
Black Hill -	36 54 0	33316
Musson Down -	94 57 0	20078
Houghton Clump -	48 9 0	
Woolbarrow -	48 13	30784
Musson Down -	70 5	24415
Milborne Obelisk -	61 42	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Woolbarrow -	104 20 30	16970
Wareham Steeple -	33 40	29657
Gallows Hill -	41 59 30	
Nine Barrow Down -	27 44	65661
Bullbarrow - -	32 25 40	56979
Frampton Obelisk -	119 50 1	
Wareham Steeple -	18 53	39070
Gallows Hill -	120 2	14606
Frampton Obelisk -	41 5	
Woolbarrow -	71 12	9330
Gallows Hill -	32 19	16522
Barrow South -	76 29	
Woolbarrow -	48 24	8283
Black Hill - -	27 6	13597
Bloxworth Steeple -	04 30	
Frampton Obelisk -	27 3 50	7117
Gallows Hill - -	16 43 40	19730
Black Knoll -	36 12 30	
Frampton Obelisk -	65 53	15022
Black Knoll -	85 55	13746
Wool Steeple -	28 12	
Gallows Hill -	8 42	25343
Black Knoll - -	44 14 0	6558
Winfrith Newburgh Steep.	27 4	
Wareham Steeple -	40 54 0	48851
Gallows Hill -	02 48	32799
High Chaldon -	36 18	
Wareham Steeple -	73 24	35093
Gallows Hill - -	52 31	29058
Rampart, Swyre Barrow	54 5	
Wareham Steeple -	60 14 30	28748
Gallows Hill - -	58 20 30	29319
Lulworth Castle -	61 25 0	
Wool Steeple -	24 17	24137
Black Knoll - -	29 45	12911
High Chaldon -	25 58 0	
High Chaldon -	81 28 30	23947
Black Knoll - -	68 26 0	25465
Knighton House -	30 5 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
High Chaldon -	138 21 30	6080
Black Knoll - -	13 2 0	17916
Barrow near W. Lulworth Flagstaff - -	28 36 30	
High Chaldon -	34 9 30	29758
Black Knoll - -	125 2 0	20406
Barrow near Aff-Piddle	20 48 30	
High Chaldon -	46 9 30	23549
Black Knoll - -	101 19 30	17323
Direction Post Knighton Down - -	32 31 0	
Nine Barrow Down -	15 28 23	109854
Black Down - -	54 29 40	36002
Wyke Regis Steeple -	110 1 57	
Nine Barrow Down -	7 54 33	103647
Black Down -	30 35 42	28022
Dorchester Steeple -	141 29 45	
Dorchester Steeple -	54 5 30	17048
Black Down - -	37 27 0	22705
Ridgeway Station -	88 27 30	
Black Down - -	51 3 30	14867
Wyke Regis Steeple -	23 27 0	29057
Ashton Ridge -	105 29 30	
Wyke Regis Steeple -	15 30 0	26699
Ashton Ridge -	64 59 0	7873
Ridgeway Hill - -	99 31 0	
Wyke Regis Steeple -	62 24 0	39090
Ridgeway Hill -	76 4 30	35690
Lulworth Flagstaff - -	41 31 30	
Wyke Regis Steeple -	39 15 0	27583
Ashton Ridge - -	66 12 0	19074
Osmington Down -	74 33 0	
Osmington Down	56 25 0	7487
Wyke Regis Steeple -	14 54 0	24257
Bincum Down Barrow -	108 41 0	
Osmington Down -	72 11 0	5597
Bincum Down Barrow -	42 42 0	7857
Preston Steeple -	65 7 0	
Ashton Ridge - -	17 8 0	27628
Wyke Regis Steeple -	71 56 0	8561
Barrow near Weymouth	90 56 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distance in Feet.
	° ′ ″	
Black Down - -	44 19 0	52181
Ridgeway Hill - -	111 52 0	39281
East Signal Staff, Portland	23 49 0	
Black Down - -	49 6 30	56851
Ridgeway Hill - -	108 39 30	45361
Portland Spire - -	22 14 0	
Black Down - -	54 57 0	64130
Ridgeway Hill - -	105 3 30	54367
Portland Lighthouse -	19 59 30	
Dorchester Steeple -	54 51 0	42655
Ridgeway Hill - -	102 9 20	35677
Lulworth Flagstaff -	22 59 40	
Black Down - -	36 47 30	45618
Dorchester Steeple -	107 18 0	28615
Foxwell Flagstaff -	35 54 30	
Dorchester Steeple -	67 21 0	14739
Foxwell Flagstaff -	30 40 0	26669
Fire Beacon on Piddle Town Heath -	81 59 0	
Black Down - -	6 42 30	51679
Foxwell Flagstaff -	138 23 30	8307
Ower Moigne Steeple -	39 54 0	
Piddle Town Heath - -	12 23 0	14452
Foxwell Flagstaff -	13 52 0	12931
Broad-Moyne - -	153 45 0	
Dorchester Steeple -	35 10 0	8299
Piddle Town Heath -	31 0 0	9280
West Stafford Steeple -	113 50 0	
Dorchester Steeple -	39 48 0	38386
Foxwell Flagstaff -	92 2 30	24587
Frampton Obelisk -	48 9 30	
Black Down - -	44 26 30	30983
Dorchester Steeple -	74 51 0	22435
Godmanstone Down -	60 48 30	
Black Down -	69 0 0	29941
Godmanstone Down	54 4 30	34518
Aggerdon Hill -	56 55 30	
Black Down - -	17 17 0	20673
Aggerdon Hill -	31 3 0	11908
Compton Barrow -	131 40 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Compton Barrow -	56 29 0	21200
Black Down - -	63 6 0	19819
Sea Barrow Clump -	60 25 0	
Compton Barrow -	19 30 0	35205
Sea Barrow Clump -	135 34 0	16787
Station on the right of the road from Sherborne to Dorchester - -	24 56 0	
Station right of road -	56 27 20	16368
Sea Barrow Clump -	60 25 30	15686
Dorchester Steeple -	63 7 10	
Compton Barrow -	30 3 0	24390
Sea Barrow Clump -	89 34 30	12213
Godmanstone Down Barrow	60 22 30	
Compton Barrow -	49 27 0	17206
Sea Barrow Clump -	52 32 0	16472
Frampton Barrow -	78 1 0	
Godmanstone Down -	42 9 0	12190
Dorchester Steeple -	31 24 30	15697
Sea Barrow Clump -	106 26 30	
Aggerdon Hill -	39 52 0	12095
Compton Barrow -	71 18 0	8183
Long Bredy - -	68 50 0	
Frampton Barrow -	47 32 30	9962
Sea Barrow Clump -	37 2 0	12204
Godmanstone Down -	95 25 30	
Frampton Barrow -	15 52 30	6155
Sea Barrow Clump -	9 4 0	10682
Frampton Steeple -	155 3 30	
Frampton Barrow -	68 45 30	11909
Godmanstone Down -	63 2 0	12457
Clump of trees North -	48 12 30	
Black Down - -	59 13 0	[illegible]56
Aggerdon Hill - -	37 4 0	25878
Abbotsbury Flagstaff -	83 43 0	
Abbotsbury Flagstaff -	53 49 0	26013
Aggerdon Hill -	73 35 0	15093
Shipton Beacon -	72 36 0	
Shipton Beacon -	8[illegible] 42 0	17027
Aggerdon Hill - -	53 8 0	21059
Puncknoll -	45 10 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Puncknoll - -	34 47 30	15918
Aggerdon Hill - -	48 40 30	12094
Long Bredy - -	96 32 0	
Long Bredy -	32 37 0	6354
Puncknoll - -	17 57 30	11108
Cheney Litton Steeple -	129 25 30	
Puncknoll - -	25 30 0	36777
Shipton Beacon -	135 36 0	22630
Symondsbury Hill -	18 54 0	
Puncknoll - -	70 40 0	36786
Aggerdon Hill -	75 39 0	35830
Symondsbury Hill -	33 41 0	
Puncknoll - -	69 30 0	35372
Aggerdon Hill -	75 20 0	34248
Symondsbury Steeple -	35 10 0	
Puncknoll - -	37 36 30	5804
Shipton Beacon -	15 54 30	12924
Swyre Barrow - -	126 29 0	
Shipton Beacon -	78 52 0	10130
Swyre Barrow -	42 11 0	14802
North Hill - -	58 57 0	
Shipton Beacon -	38 45 0	13769
North Hill - -	93 58 0	8651
Bridport Market-house	47 13 0	
Swyre Barrow -	22 0 0	8008
North Hill - -	22 8 0	7962
Green Cliff - -	135 52 0	
Shipton Beacon -	16 5 0	10186
Swyre Barrow - -	41 59 0	4218
Berwick Farm - -	121 56 0	
Shipton Beacon - -	40 48 30	10151
Symondsbury Hill -	23 56 0	16352
North Hill - -	115 15 30	
North Hill -	52 19 0	5127
Symondsbury Hill -	17 4 0	13827
Lookout House, Bridport Harbour - -	110 37 0	
Shipton Beacon -	8 27 0	3739
North Hill - -	4 53 0	6455
Shipton Steeple -	166 40 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
North Hill - -	29 35 0	3806
Symondsbury Hill -	8 12 0	13177
Bothenhampton Steeple	142 13 0	
Puncknoll - -	83 55 0	44945
Aggerdon Hill -	69 58 0	47569
Golden Cape Signal Staff	26 7 0	
Symondsbury Hill -	64 3 0	23550
Shipton Beacon -	59 48 0	24501
Warren Hill - -	56 9 0	
Symondsbury Hill -	40 52 0	34277
Shipton Beacon -	98 21 0	22668
Pegnorth - -	40 47 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Symondsbury Hill -	7 13 0	19313
Pegnorth - -	9 7 0	15847
Round Hill, near Milton	163 40 0	
Symondsbury Hill -	64 0 0	24790
Pegnorth - -	43 35 0	32318
Lewson Hill - -	72 25 0	
Symondsbury Hill -	40 52	24767
Warren Hill -	73 26	16906
Lewson Hill - -	65 42	
Symondsbury Hill -	20 30 0	33201
Warren Hill - -	122 59 30	13863
Oak Tree North of Warren Hill - -	36 30 30	

ART. VII. *Secondary Triangles for the Survey of Hampshire, Part of Somersetshire, and Part of Wiltshire. Plate* VII.

The Distances serving as Base Lines for the following Triangles are

Dean Hill to	Beacon Hill -	58086 Feet.
	Ringwood Steeple	74367
	Farley Monument	53239
	Southampton Spire	74522
	Butser Hill -	156122
	Highclere Beacon	125605
Butser Hill to	Portsdown Hill -	52729
Wingreen to	Ringwood Steeple	87983
Beacon Hill to	Highclere Beacon	98694
	Bradley Knoll -	135272
Mendip Hill to	Bradley Knoll -	61963
	Dundry Beacon	69196

Dean Hill - -	42 53 0	60270
Ringwood Steeple -	53 37 50	50936
Lyndhurst Steeple -	83 29 10	
Dean Hill - -	71 6 40	54340
Beacon Hill - -	51 46 30	65445
New Station on Stockbridge Hill -	57 6 50	
Dean Hill - -	53 21 30	35462
Beacon Hill -	37 37 10	46614
Salisbury Spire -	[illegible] 20	

Dean Hill	23 17 30	53233
Stockbridge Hill	75 29 50	21747
Farley Monument	81 12 40	
Dean Hill	15 2 0	14981
Stockbridge Hill -	5 34 0	40059
Cadbury Beech -	159 24 0	
Dean Hill -	84 44 30	60275
Farley Monument	51 31 0	76677.
Lyndhurst Steeple	43 44 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet
Dean Hill - -	45 12 20	33950
Farley Monument -	39 24 40	37948
Heathcote's Pillar -	95 23 0	
Dean Hill - -	70 47 0	41880
Farley Monument -	45 4 0	55862
Caddenham Station -	64 9 0	
Dean Hill - -	39 25 20	83562
Farley Monument -	102 2 0	54256
Town Hill Telegraph	38 32 40	
Dean Hill - -	42 29 20	88921
Farley Monument -	01 36 10	61314
Nettle Heath Clump -	35 54 30	
Wingreen - -	8 42 48	87461
Ringwood Steeple -	83 24 25	13338
Moyls Court Summer House - -	87 52 47	
Ringwood Steeple -	52 39 30	15531
Moyls Court - -	72 24 0	12954
Picket Post Inn -	54 56 30	
Dean Hill - -	25 36	41874
Heathcote's Pillar -	01 54	18490
Caddenham Station -	52 30	
Dean Hill - -	30 56	10703
Heathcote's Pillar -	11 10	41753
Ayre's Summer House	37 54	
Dean Hill - -	28 10	32895
Heathcote's Pillar -	72 19	16298
Half Moon Clump -	79 31	
Dean Hill - -	5 46	50928
Heathcote's Pillar -	62 59	17485
Toot Hill Telegraph	11 15	
Heathcote's Pillar -	40 15	35268
Ayre's Summer House -	56 56	27191
Branshaw Telegraph -	82 49	
Branshaw Telegraph -	156 28 0	8255
Ayre's Summer House	5 25 0	34915
Mr. Harben's House	18 7 0	
Branshaw Telegraph -	56 54	30561
Ayre's Summer House	67 49 0	27712
Gallows Hill (Maze Hill)	55 17 0	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distances in Feet.
Ayre's Summer House	109 3 0	24745
Gallows Hill -	33 10 0	42754
Pustle Lodge -	37 47 0	
Ayre's Summer House	28 35 0	19683
Gallows Hill -	42 5 0	14051
Clebury Rings -	109 20 0	
Heathcote's Pillar	24 44	16303
Caddenham Station	61 38	7752
Half Moon Clump	93 38	
Heathcote's Pillar -	91 18	30024
Caddenham Station -	57 26	35616
White Parish Steeple	31 16	
Heathcote's Pillar .	79 24	19519
Caddenham Station	52 10	24292
Rownham's SummerHouse	48 26	
Heathcote's Pillar -	90 43	41755
Caddenham Station -	65 31	45877
Ayre's Summer House	23 46	
Heathcote's Pillar -	95 8	17483
Caddenham Station -	40 58	26559
Toot Hill Telegraph -	43 54	
Gallows Hill -	56 5	13734
Clebury Rings -	60 44	13065
Downton Steeple -	63 11	
Farley Monument -	12 6	37949
Lyndhurst Steeple -	11 22	40362
Heathcote's Pillar -	156 32 0	
Farley Monument -	50 6	61313
Lyndhurst Steeple -	51 33	60061
Nettle Heath Clump -	78 21	
Farley Monument -	18 39	5589
Heathcote's Pillar -	8	32701
Farley Spire -	158 13 0	
Farley Monument .	105 44	44548
Heathcote's Pillar	40 36	65889
White Flood Clump	33 40 0	
Heathcote's Pillar	13 2 0	34176
Lyndhurst Steeple -	47 29 0	10457
Minstead Steeple	119 29 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.	Names of Stations and intersected Objects	Angles for Calculation	Distances in Feet.
Heathcote's Pillar -	23 32 0	34270	Eling Steeple -	114 19	7651
Lyndhurst Steeple -	56 50 0	16346	Romsey Steeple -	12 3	33399
Stoney Cross Inn -	99 38 0		Hunter's Inn -	53 38	
Heathcote's Pillar -	88 57 0	17483	Eling Steeple -	113 50	13450
Lyndhurst Steeple -	23 35 0	43691	Hunter's Inn -	43 14	17961
Toot Hill Telegraph -	67 28 0		Upton Steeple -	22 56	
Dean Hill - -	51 15 20	53233	Farley Monument	43 8	44566
Southampton Spire -	45 13 0	58496	Town Hill Telegraph -	54 30	37426
Farley Monument -	83 31 40		White Flood Clump -	82 22	
Dean Hill - -	76 21 1	74367	Farley Monument -	57 5	40220
Southampton Spire -	51 44 5	92027	White Flood Clump	55 4[illegible]	41211
Ringwood Steeple -	51 53 5		Stoneham Summer Hous[illegible]	66 20	
Dean Hill - -	0 10 4[illegible]	74762	Farley Monument -	13 3	26956
Southampton Spire -	135 40 1[illegible]	334	White Flood Clump -	18 24	19283
East Spire, *Southampton*	44 9 [illegible]		Ann's Hill Fire Beacon	148 33	
Farley Monument -	32 1 [illegible]	76668	Farley Monument - -	3 40	41076
Southampton Spire -	99 6 [illegible]	41165	White Flood Clump -	36 23	4428
Lyndhurst Steeple -	48 53 [illegible]		Owstlebury Steeple	139 57	
Dean Hill - -	7 47 [illegible]	59523	Farley Monument - -	16 20 5	45975
East Spire, *Southampton*	27 3 [illegible]	17726	White Flood Clump -	88 2 5	12948
Eling Steeple -	145 10 0		Gander Down Sum. Hous[illegible]	75 36 1	
Dean Hill - -	19 45 30	74761	Stoneham Summer House	75 19	24472
Caddenham Station -	138 25	38078	White Flood Clump	34 4	4226[illegible]
East Spire, *Southampton*	21 49 30		Nettle Heath Clump	70 37	
Dean Hill - -	34	88910	Stoneham Summer House	27 19	40469
East Spire, *Southampton*	134 46	18678	White Flood Clump -	74 12	19301
Nettle Heath - -	36 39 20		Ann's Hill Fire Beacon	78 29	
Dean Hill - -	13 46 0	33947	White Flood Clump -	7 27	42254
Eling Steeple - -	16 20	27753	Town Hill Telegraph -	29 13	7071
Heathcote's Pillar -	49 40		Nettle Heath Clump -	43 20	
Heathcote's Pillar -	41 1 40	40415	White Flood Clump -	82 50 30	25844
Eling Steeple -	95 53 10	26670	Town Hill Telegraph -	36 51 30	42751
Lyndhurst Steeple -	43 5 10		Yew Tree, *Liquant Farm*	60 18 0	
Heathcote's Pillar -	95 15	7813	[illegible]ite Flood Clump -	25 20	57788
Eling Steeple - -	15 17 10	29513	Nettle Heath Clump -	11 58 0	26662
Romsey Steeple -	69 27 50		St. Margaret's Farm -	42 42 0	
Heathcote's Pillar -	47 18	7816	White Flood Clump -	50 40	4862
Toot Hill Telegraph -	[illegible]5 14 30	13472	Nettle Heath Clump -	36 0	3913
Romsey Steeple - -	[illegible]07 27 30		Beacon Hill, near Exton	49 33 20	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
White Flood Clump -	108	16	0	19269
Nettle Heath Clump -	20	45	0	51659
Ann's Hill Fire Beacon -	50	59	0	
White Flood Clump -	97	42	20	38513
Nettle Heath Clump -	38	49	40	60871
Old Winchester Hill -	43	28	0	
Ann's Hill Fire Beacon -	18	43	0	57402
Nettle Heath Clump -	98	24	0	18619
East Spire, *Southampton*	62	53	0	
Ann's Hill Fire Beacon -	49	36	0	12511
White Flood Clump - -	40	27	0	14686
Barrow above Longwood Bottom - -	89	57	0	
Ann's Hill Fire Beacon -	59	41	30	24934
White Flood Clump -	72	42	30	22545
Stoke Hill Station -	47	36	0	
White Flood Clump -	78	16	0	12950
Beacon Hill - -	29	42	0	25591
Gander Down Summer House - - -	72	2	0	
Ann's Hill Fire Beacon -	86	54	0	5422
Barrow, *Longwood Bottom*	23	54	0	13364
Winchester Cathedral -	69	12	0	
White Flood Clump -	142	14	0	12925
Stoke Hill Station -	13	35	0	33705
Gander Down Summer House - -	24	11	0	
White Flood Clump -	25	31	0	25294
Stoke Hill Station -	91	29	0	10900
Obelisk on Cranbury Common - -	63	0	0	
Farley Monument -	25	6	30	84105
Nettle Heath Clump -	112	35	0	38652
Wickham Lodge Telegraph	42	18	30	
Farley Monument -	40	52	30	98230
Nettle Heath Clump -	101	24	0	65577
Broadhalfpenny Windmill	37	43	30	
Farley Monument -	44	7	0	111405
Nettle Heath Clump -	103	32	0	79766
Chalkdon Telegraph -	32	21	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°		″	
Farley Monument -	21	51	30	82827
Wickham Lodge Telegraph	76	48	0	31674
Old Winchester Hill -	81	20	30	
Old Winchester Hill -	19	28	0	31033
Wickham Lodge Telegraph	76	53	0	10621
Shirley Heath Windmill	83	39	0	
Old Winchester Hill -	87	25	0	28950
Wickham Lodge Telegraph	43	36	0	41937
Chalkdon Telegraph -	48	59	0	
Old Winchester Hill -	22	39	0	39995
Wickham Lodge Telegraph	108	46	30	16268
Southwick Park House -	48	34	30	
Old Winchester Hill	13	15	0	37978
Wickham Lodge Telegraph	121	18	0	10187
Fir Tree near Wickham	45	27	0	
Old Winchester Hill -	88	10	30	13971
Wickham Lodge Telegraph	24	5	30	34209
Beacon Hill near Exton	67	44	0	
Old Winchester Hill -	38	20	30	47263
Wickham Lodge Telegraph	100	25	30	29811
Portsdown Hill Telegraph	41	14	0	
Beacon Hill - -	43	20	30	34756
Old Winchester Hill -	115	21	30	26398
Froxfield Steeple -	21	18	0	
Beacon Hill - -	26	9	30	5734
Old Winchester Hill -	15	59	0	9179
Exton Steeple - -	137	51	30	
Beacon Hill - -	42	10	30	7898
Old Winchester Hill -	33	9	0	9697
Meon Stoke - -	104	40	30	
Beacon Hill - -	87	6	0	14976
Old Winchester Hill -	48	32	30	19958
Brockwood House -	44	21	30	
Beacon Hill - -	84	41	30	29052
Old Winchester Hill -	68	41	30	31051
Shirley Windmill -	26	37	0	
Beacon Hill - -	83	35	0	36807
Old Winchester Hill -	74	55	0	37882
Fir Tree, *Wickham Toll-gate* - -	21	30	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Beacon Hill - -	56 41 30	18678
Old Winchester Hill -	76 37 0	16046
Soberton Steeple -	46 41 30	
Beacon Hill - -	52 58 0	46762
Old Winchester Hill -	110 49 0	39936
Thistlewait's House -	16 13	
White Flood Clump -	28 32	25849
Beacon Hill - -	80 6	12534
Liquant Yew Tree -	71 31 30	
Beacon Hill - -	82 55 0	13976
Liquant Yew Tree -	52 4 0	17584
Old Winchester Hill -	45 1 0	
Beacon Hill - -	26 6 30	16265
Liquant Yew Tree -	106 8 30	7451
Hill near Waltham -	47 45 0	
Liquant Yew Tree -	21 44	12173
Hill near Waltham -	130 33	5932
Bishops Waltham Steeple	27 43	
Hill near Waltham -	97 5 0	6529
Bishops Waltham Steeple	43 53 0	9348
Waltham House -	39 2 0	
Beacon Hill - -	97 21 0	31055
Nettle Heath Clump -	28 1 0	65569
Broadhalfpenny Windmill	54 38 0	
Old Winchester Hill -	24 1 30	18179
Chalkdon Telegraph -	30 56 30	14394
Broadhalfpenny Windmill	125 2 0	
Wickham Lodge Telegraph	26 14 30	60209
Chalkdon Telegraph -	114 23 0	29229
Stanstead Monument	39 22 30	
Wickham Lodge Telegraph	56 47 30	29794
Chalkdon Telegraph -	44 13 0	35746
Portsdown Hill Telegraph	78 59 30	
Wickham Lodge Telegraph	48 58 0	31201
Chalkdon Telegraph	47 39 0	31846
Purbrook Park House	83 23 0	
Wickham Lodge Telegraph	60 2 0	27108
Chalkdon Telegraph -	[illegible] 35 30	36849
Portsdown Windmill -	[illegible] 22 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Farley Monument -	15 48 30	111234
Broadhalfpenny Windmill	106 11 30	31555
Portsdown Windmill -	58 0 0	
Farley Monument -	15 44	84102
Broadhalfpenny Windmill	52 51	28612
Wickham Lodge Telegraph	111 25	
Farley Monument -	19 3	111258
Chalkdon Telegraph -	80 15	36846
Portsdown Windmill -	80 42	
Beacon Hill - -	28 44	55016
Broadhalfpenny Windmill	123 1	31542
Portsdown Windmill -	28 15	
Beacon Hill - -	26 2 30	56669
Broadhalfpenny Windmill	128 36	31834
Portsdown Telegraph -	25 21 30	
Wickham Lodge Telegraph	65 58	28611
Portsdown Telegraph -	55 13	31815
Broadhalfpenny Windmill	58 49	
Chalkdon Telegraph -	37	8256
Broadhalfpenny Windmill	62 30	9251
Catherington Windmill	110 29	
Farley Monument	15 46	73493
Broadhalfpenny Windmill	35 59 0	33988
Shirley Windmill -	128 15 0	
Broadhalfpenny Windmill	61 34	9253
Portsdown Telegraph -	16 32 0	28592
Catherington Windmill	101 54 0	
Chalkdon Telegraph -	62 1	30831
Stanstead Monument -	61 32	30972
Beacon Hill Telegraph	56 27	
Portsdown Telegraph -	22 1	60900
Chalkdon Telegraph -	132 13	30826
Beacon Hill Telegraph -	25 46	
Portsdown Telegraph -	66 53	27517
Chalkdon Telegraph -	45 25	35533
Hensworth Chapel -	67 42	
Chalkdon Telegraph -	134 37 0	28950
Beacon Hill Telegraph -	21 56 20	55157
Old Winchester Hill -	23 26 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Beacon Hill Telegraph	41 59 10	42346
Old Winchester Hill -	50 6 2	36922
Froxfield Windmill -	87 54 30	
Farley Monument -	28 47	94247
Old Winchester Hill -	89 43	45380
Newton Windmill -	61 30 0	
Chalkdon Telegraph -	86 50 0	35532
Beacon Hill Telegraph	50 52 0	45736
Hemsworth Chapel -	42 18 0	
Beacon Hill Telegraph	44 7 40	63760
Old Winchester Hill -	78 3 20	45376
Newton Windmill -	57 49	
Butser Hill - -	63 9 4	156119
Portsdown Hill Station	97 16 28	140419
Dean Hill - -	19 34 28	
Dean Hill - -	15 50 12	168055
Butser Hill - -	96 54 20	46197
Havant Steeple -	67 15 28	
Dean Hill - -	13 16 6	178357
Butser Hill - -	13 7 0	44509
Bourne Steeple -	53 36 54	
Beacon Hill Telegraph	31 30 0	75002
Froxfield Windmill -	18 52 0	44748
Binstead Spire - -	29 38 0	
Beacon Hill Telegraph	40 28 0	62614
Froxfield Windmill -	97 25 0	40980
Woolmer Forest Clump	42 7 0	
Newton Windmill -	92 27 30	36890
Beacon Hill Telegraph	29 25 30	75019
Binstead Spire -	58 7 0	
Beacon Hill Telegraph	7 0 0	67453
Binstead Spire -	45 34 0	11512
East Worldham Steeple	27 26 0	
Beacon Hill Telegraph	8 54 0	87480
Binstead Spire -	130 9	17706
Large Beech Tree, *Froyle*	40 57	
Beacon Hill Telegraph	15 54	67471
Woolmer Forest Clump	97 1	16624
East Worldham Steeple	67 5	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
Beacon Hill Telegraph -	4 41	59011
Woolmer Forest Clump	51 44	6136
Headley Spire -	123 35	
Beacon Hill Telegraph	13 51 0	49112
Woolmer Forest Clump	38 13 0	19004
Bramshot Spire -	127 56	
Beacon Hill Telegraph	11 16 3	27541
Woolmer Forest Clump	8 36	36010
Clump of Trees near the Flying Bull Inn.	160 7 3	
Beacon Hill Telegraph -	29 46	49115
East Worldham Steeple	44 29	34799
Bramshot Spire -	105 45	
Beacon Hill Telegraph	20 34	59019
East Worldham Steeple	59 31	24059
Headley Spire - -	99 55	
East Worldham Steeple	70 0	24127
Woolmer Forest Clump	65 25	24932
Bentley Steeple -	44 35	
East Worldham Steeple	7 12	11976
Woolmer Forest Clump	12 33	6907
Cricket Inn, *Kingsley*	60 15	
East Worldham Steeple	29 7 0	37346
Woolmer Forest Clump	27 37 0	22941
Large House near Bramshot	23 16	
East Worldham Steeple	60 51	20209
Binstead Spire -	84 36	17728
Large Beech Tree, *Froyle*	34 33 0	
East Worldham Steeple	57 29	19882
Binstead Spire -	87 11	16785
Large Ash Tree, *Froyle*	35 30	
East Worldham Steeple	88 2 0	6350
Binstead Spire -	29 20 0	12955
Station South of Alton	62 38 0	
East Worldham Steeple	102 49	11988
Binstead Spire -	39 31	18370
Alton Spire - -	37 40 0	
Binstead Spire - -	2 35	16784
Large Beech Tree -	38 30	1215
Large Ash Tree -	138 55	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Large Beech Tree -	18	32	0	35706
Beacon Hill Telegraph	11	57	0	54813
Selbourne Steeple -	149	31	0	
Station South of Alton	147	36	30	6060
Binstead Spire - -	10	11	0	18362
Alton Spire - -	22	12	30	
Station South of Alton	74	7	0	14759
Binstead Spire -	57	52	0	16763
Large Ash Tree - -	48	1	0	
Gander Down Sum. House	124	28	40	23020
Farley Monument -	17	49	40	61982
Alresford Steeple -	37	41	40	
Gander Down Sum. House	51	20	0	23311
Alresford Steeple -	65	5	0	20069
Yew Tree Clump, *Hitchen*	63	35	0	
Gander Down Sum. House	5	7	0	25553
Alresford Steeple -	136	51	0	3332
Old Alresford Steeple	38	2	0	
Gander Down Sum. House	17	25	0	32619
Alresford Steeple -	129	43	0	12697
Abbotsdown Barrow -	32	52	0	
Gander Down Sum. House	30	38	0	23434
Alresford Steeple -	76	33	0	12277
Stoke Down, *Large Barrow* - - -	72	49	0	
Gander Down Sum. House	46	12	0	23325
Old Alresford Steeple -	60	48	0	19285
Yew Tree Clump -	73	0	0	
Alresford Steeple -	53	9	0	12679
Stoke Down - -	65	16	0	11171
Abbotsdown Barrow -	61	35	0	
Alresford Steeple -	101	38	0	9675
Abbotsdown Barrow.	32	55	0	17438
Ovington Steeple -	45	27	0	
Alresford Steeple -	[illegible]	42	0	6152
Abbotsdown Barrow	19	2	0	16547
Bishop's Sutton Steeple	[illegible]	16	0	
Beacon Hill - -	62	13	0	81711
Highclere Beacon -	50	1	30	94336
Farley Monument -	67	49	30	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Beacon Hill - -	76	55	0	19096
Highclere Beacon -	11	9	0	96187
Mallets Grove, Building	91	56	0	
Beacon Hill - -	18	44	0	56816
Highclere Beacon -	22	7	20	48455
Andover Steeple -	139	8	40	
Beacon Hill - -	19	37	0	17663
Highclere Beacon -	4	8	0	82270
Thruxton Hill, *Small Tree*	156	15	0	
Beacon Hill - -	50	33	0	45256
Highclere Beacon -	26	33	0	78183
Danesbury Camp -	102	54	0	
Beacon Hill - -	26	24	20	134300
Highclere Beacon -	113	2	40	60304
Windmill Clump, near Dummer - -	42	33	0	
Beacon Hill - -	84	6	0	75782
Highclere Beacon -	39	40	0	118092
Milk Hill, *Thorn* -	56	14	0	
Beacon Hill - -	2	20	0	103990
Highclere Beacon -	140	54	0	6713
Buryclere, *Small Clump*	36	46	0	
Beacon Hill - -	29	5	0	31734
Highclere Beacon -	12	15	50	72618
Centre Clump on Windmill Hill near Ludgershall - -	138	39	10	
Beacon Hill - -	26	48	0	108764
Highclere Beacon -	88	7	0	49066
Popham Beacon -	65	5	0	
Beacon Hill - -	23	56	0	50821
Highclere Beacon -	21	32	10	56163
Chute Down Ash Tree	134	31	50	
Beacon Hill - -	24	56	0	57596
Highclere Beacon -	27	35	20	52427
Tidcombe Down Ash Tree	127	28	40	
Highclere Beacon	21	20	13	212343
Dean Hill - -	133	15	34	106062
Wingreen - -	25	24	13	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Highclere Beacon -	84	34	50	30295	Beacon Hill - -	74	27	0	50819
Dean Hill - -	13	51	40	125890	Danesbury Camp -	57	8		58289
Walbury Intrenchment	81	33	30		Ash Tree, *Chute Common*	48	25	0	
Highclere Beacon -	107	39	0	30297	Beacon Hill	57	18	0	17651
Farley Monument -	15	35	0	107472	Mallet's Grove	57	14	0	17664
Walbury Intrenchment	56	46	0		Thruxton Hill, *Small Tree*	65	28		
Highclere Beacon -	68	21	0	32512	Beacon Hill - -	105	51	0	24259
Walbury Intrenchment	58	48	0	35328	Mallet's Grove -	42	13	0	34730
Newbury Steeple -	52	51	0		Tidworth Steeple -	31	56	0	
Highclere Beacon -	62	41	0	39121	Danesbury Camp -	30	56	0	29580
Walbury Intrenchment	70	27	0	36885	Andover Steeple -	72	45	0	15921
Donnington Castle -	46	52	0		Weyhill Steeple -	76	19	0	
Highclere Beacon -	54	15	0	32377	Beacon Hill - -	114	29		36093
Walbury Intrenchment	66	35	0	28635	Mallet's Grove -	43	58		47314
Uphurstborne Windmill	59	10	0		Pollard, near Druid's Head	21	33		
Highclere Beacon -	55	47	0	9257	Beacon Hill - -	103	41		
Walbury Intrenchment	16	58	0	26231	Mallet's Grove -	37	34		29643
Lord Carnarvon's Temple	107	15	0		Tidworth Summer House	38	45		
Highclere Beacon -	51	24	0	34841	Beacon Hill - -	91	23		58410
Walbury Intrenchment	72	33	0	28543	Mallett's Grove -	70	39		61869
Lord Craven's House -	56	3	0		Conholt Lodge -	17	58		
Highclere Beacon -	10	18	0	30925	Beacon Hill - -	60	19	0	12387
Walbury Intrenchment	91	21	0	5531	Mallet's Grove -	39	42	0	16847
West Woodhay Steeple	78	21	0		Parkhouse Inn -	79	59	0	
Beacon Hill - -	31	49	0	56797	Highclere Beacon -	5	40	30	39126
Danesbury Camp -	95	44	0	30094	Newbury Steeple -	148	56	0	7497
Andover Steeple -	52	27	0		Donnington Castle -	25	23	30	
Beacon Hill - -	24	41	0	49400	Walbury Intrenchment	4	47	0	23316
Danesbury Camp - -	89	12	0	20669	Newbury Steeple -	9	8	0	12248
Bury Hill Clump -	66	7	0		Enborne Steeple -	166	5	0	
Beacon Hill - -	79	39	0	31736	Beacon Hill - -	91	21	0	31717
Danesbury Camp -	38	17	0	50391	Farley Monument -	21	2		88345
Windmill Hill near Ludgershall - -	62	4			Windmill Hill, near Ludgershall -	67	37	0	
Beacon Hill - -	12	48		57806	Beacon Hill -	107	58	0	26665
Danesbury Camp -	130	57		16956	Farley Monument -	15	45	0	93445
Oak Tree, *Fullerton Farm*	36	15			Chidbury Station -	56	17	0	
Beacon Hill - -	8	27		38245	Highclere Beacon -	38	51		37391
Danesbury Camp -	37	7		9313	Danesbury Camp -	25	33		54381
Barrow near five mile stone	134	26			Tangley Clump	115	36	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Highclere Beacon -	114	21	0	6707
Danesbury Camp -	4	19	0	81178
Burghclere, *Small Clump*	61	20	0	
Highclere Beacon -	61	34		49080
Danesbury Camp -	38	13		69766
Popham Beacon -	80	13		
Highclere Beacon -	84	7	0	14567
Danesbury Camp -	10	42	0	78047
Hanes Warren Clump	85	11	0	
Highclere Beacon -	23	52	30	30734
Danesbury Camp -	13	57	0	51601
Lord Portsmouth's House	142	10	30	
Highclere Beacon -	18	35	30	36668
Danesbury Camp -	15	4	0	44974
Arch Lodge - -	146	20	30	
Beacon Hill - -	16	36		26656
Windmill Hill -	50	56	0	9808
Chidbury Hill Station -	112	28	0	
Beacon Hill - -	48	19		42358
Windmill Hill - -	83	35		31833
Uphaven Down Clump	48	6		
Beacon Hill - -	32	5		36110
Windmill Hill - -	86	37		19213
Everley Windmill -	61	18	0	
Windmill Hill -	27	25	0	22454
Danesbury Camp -	18	45	0	32166
Direction Post on the Devizes Road - -	133	50	0	
Windmill Hill -	18	18	0	53906
Danesbury Camp -	92	40	0	16944
Oak Tree, *Fullerton Farm*	69			
Windmill Hill -	10	49	0	16588
Danesbury Camp -	5	13	0	34239
Kimpton Windmill -	163	58	0	
Windmill Hill -		5	0	20048
Danesbury Camp -		41	0	54260
Chute Steeple -	68	14	0	
Windmill Hill	64	34	0	20727
Danesbury Camp	24	17	0	45516
Chute Lodge -	91	9	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Windmill Hill -	59	32	0	25449
Danesbury Camp -	30	20	0	43433
Barrow, North of Beacon Hill - - -	90	8		
Beacon Hill - -	34	6		58370
Thruxton Hill - -	133	9		44854
Conholt Lodge -	12	45		
Chidbury Hill - -	117	19	0	12614
Windmill Hill - -	35	42	0	19206
Everley Windmill -	26	59		
Chidbury Hill -	61	34		16463
Windmill Hill - -	82	16		14615
Collingbourne Windmill	36	10	0	
Uphaven Down Clump	146	56	0	33894
Windmill Hill -	17	4	0	63013
Milk Hill, *Thorn* -	16	0	0	
Windmill Hill - -	6	48	0	69115
Fullerton Farm, *Oak*	150	56		16844
Barrow, near the six mile stone - -	22	16	0	
Windmill Hill -	12	49	0	47884
Fullerton Farm, *Oak*	55	49	0	12841
Barrow, South of Andover	111	22	0	
Danesbury Camp	19	56		31768
Fullerton Farm, *Oak*	140	1		16853
Barrow near the six mile stone - - -	20			
Danesbury Camp - -	23	28		26491
Fullerton Farm, *Oak* -	24	52		12857
Barrow, South of Andover	31	40		
Danesbury Camp -	74	3		29335
Chute Common, *Ash*	29	19	0	57606
Mallet's Grove -	76	38		
Danesbury Camp -	07	55		39702
Chute Common, *Ash*	28	11		79986
Crawley Clump -	43	54		
Danesbury Camp - -	6	29	0	58261
Chute Common, *Ash* -	86	31	0	6591
Chute Common Barrow	87	0	0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.	Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
Direction Post -	39 17 0	19750	Beacon Hill - -	55 1 0	31739
Danesbury Camp -	36 32 0	21006	Milk Hill, *Thorn* -	24 18 0	63191
Grateley Spire - -	104 11 0		Windmill Hill -	100 41 0	
Direction Post -	46 50	26160	Beacon Hill - -	47 34 0	32882
Windmill Hill - -	76 34	19617	Milk Hill, *Thorn* -	24 21 30	58842
Chute Common, *Ash* -	56 36		Neath Barrow - -	108 4 30	
Direction Post -	160 58	10400	Beacon Hill - -	78 13	31730
Chute Common, *Ash* -	5 23	36151	Red Horn Clump -	30 32	61139
Amport Spire - -	13 39		Windmill Hill -	71 15	
Direction Post -	97 50	8083	Beacon Hill - -	22 40 0	23490
Danesbury Camp -	13 32	34217	Red Horn Clump -	13 35 0	38544
Kimpton Windmill -	68 38		Knighton, Long Barrow	143 45 0	
Chute Common, *Ash*	134 50	6615	Beacon Hill - -	38 48	63979
Beacon Hill - -	4 50	55682	Red Horn Clump -	76 58	41149
Chute Common, Barrow	40 20 0		Chittern Windmill -	64 14 0	
Fullerton Farm, *Oak* -	13 32	8251	Beacon Hill - -	19 22 0	81169
Barrow South of Andover	21 48	5199	Red Horn Clump -	122 56 0	32071
Clatford Steeple -	144 40 0		Ann's Hill Building	37 47	
Chute Common, *Ash* -	53 11	73376	Beacon Hill - -	24 24 0	32869
Beacon Hill - -	83 21	59139	Red Horn Clump -	25 56 0	32211
Red Horn, Clump -	43 28		Neath Barrow -	130 40 0	
Chute Common, *Ash* -	16 37	11004	Windmill Hill - -	69 46	45831
Chute Common, Barrow	141 24	5044	Red Horn Clump -	43 31 0	62453
Heydon Hill Clump -	1 59		Lord Elbury's Monument	66 43 0	
Beacon Hill - -	5 51 0	57587	Windmill Hill -	76 7 0	40580
Chute Common Barrow	105 18 0	6085	Red Horn Clump -	37 28 0	64762
Tidcombe Down, *Ash*	68 51 0		Summer House -	66 25 0	
Tidcombe Down, *Ash*	49 42 0	76839	Milk Hill, *Thorn* -	67 9	21976
Beacon Hill - -	82 20 0	59131	Red Horn Clump -	41 14 9	30724
Red Horn Clump -	47 58 0		Bishop's Canning Spire	71 37 0	
Beacon Hill - -	65 0	75790	Milk Hill, *Thorn* -	10 17 0	42711
Chute Common Barrow	71 0 0	72627	Red Horn Clump -	143 43 0	12884
Milk Hill, *Thorn* -	44 0 0		Ellbarrow - -	26 0 0	
Beacon Hill - -	00 10 0	50782	Milk Hill, *Thorn* -	79 24	23535
Milk Hill, *Thorn* -	41 5 0	67034	Red Horn Clump -	40 16	35790
Chute Common, *Ash*	78 45 0		Pewsey Steeple -	60 20 0	
Beacon Hill - -	23 11	59143	Milk Hill, *Thorn* -	95 48	26121
Milk Hill, *Thorn* -	47 2	31639	Red Horn Clump -	37 10	43016
Red Horn Clump -	09 2		Pewsey Windmill -	47 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Milk Hill, *Thorn* -	90 16 0	38007
Red Horn Clump -	50 4 0	49566
Easton Clump -	39 40 0	
Milk Hill, *Thorn* -	59 24	11695
Red Horn Clump -	21 24	27588
Wilcot Hill -	99 12 0	
Milk Hill, *Thorn* -	52 0 0	33384
Red Horn Clump -	67 9 0	28548
Devizes Spire -	60 51	
Tidcombe Down -	52 59 0	34428
Red Horn Clump -	26 6 0	62484
Lord Elbury's Monument	100 55 0	
Milk Hill, *Thorn* -	13 13	36570
Devizes Spire - -	104 51	8650
Pottern Hill, *Tree* -	61 56 0	
Milk Hill, *Thorn* -	22 7	42938
Ellbarrow - -	79 43	16430
Gibbet Knoll - -	78 10	
Ellbarrow - -	25 48	17437
Gibbet Knoll -	84 30	7624
Hurshfont Hill -	69 42	
Milk Hill, *Thorn* -	20 0	23510
Wilcot Hill -	142 17	15144
Pewsey Steeple -	17 43	
Milk Hill, *Thorn* -	36 24 0	26090
Wilcot Hill - -	121 1 0	18071
Pewsey Windmill - -	22 35 0	
Milk Hill, *Thorn* -	18 42 0	27944
Wilcot Hill -	148 46 0	17278
Rushall Steeple - -	12 32 0	
Milk Hill, *Thorn* -	90 7 0	13971
Wilcot Hill - -	50 0 0	18238
Ashington Steeple -	39 53 0	
Highclere Beacon -	92 23 0	22483
Donnington Castle -	29 17 0	45926
Freemantle Park, *Fir* -	58 20 0	
Highclere Beacon -	26 59 0	36639
Freemantle Park -	71 27 0	[illegible]
Cot House on Baughurst Common - -	31 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Highclere Beacon -	6 21 0	38315
Freemantle Park -	34 7 0	19430
Burghclere Steeple -	139 32 0	
Highclere Beacon -	66 22	27397
Freemantle Park -	65 23	27608
Greenham Direction Post	48 15 0	
Highclere Beacon -	11 38 20	31904
Freemantle Park -	141 48 0	10144
Woolverton Steeple -	26 33 40	
Highclere Beacon -	15 55 40	41752
Freemantle Park -	147 2 0	21056
Baughurst Steeple -	17 2 20	
[illegible]hclere Beacon -	27 29	22034
[illegible]nham Direction Post	52 20	12846
Ilchingswell Windmill	100 11 0	
Freemantle Park -	81 39	21945
Greenham Direction Post	40 18	32192
Baughurst Steeple -	58 3 0	
Highclere Beacon	63 21 0	46164
Fangley Clump -	67 59 0	44506
Long Parish middle Clump	48 40	
Highclere Beacon	18 34	5[illegible]51
Fangley Clump -	3 5	32279
Sidown Barrow -	158 21 0	
Milk Hill, *Thorn* -	71 35 50	43643
Tidcomb Down, *Ash*	37 31 10	67994
Up Ogbourne Barrow	70 53	
Up Ogbourne Barrow	29 33 0	22295
Tidcombe Down, *Ash*	12 45 0	49826
Station S. of Marlborough	137 42 0	
Milk Hill, *Thorn* -	2 54 10	67709
Chute Common Barrow	34 18 0	6085
Tidcombe Down, *Ash*	142 47 50	
Station S. of Marlborough	48 28 0	2461
Up Ogbourne Barrow	66 14 0	10372
Totterdown Clump -	65 18 0	
Station S. of Marlborough	26 8	4172
Totterdown Clump -	5 37	18801
St. Peter's Steeple, Marlborough - -	148 15	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet
Highclere Beacon -	53 11 40	34735
Uphursbourne Windmill	67 25 0	30121
Gibbet on Ham Hill -	59 23 20	
Highclere Beacon -	48 43 0	38855
Uphursbourne Windmill	77 0 0	29966
Buttermire Hill -	54 17 0	
Uphursbourne Windmill	18 13 0	29948
Walbury Intrenchment	88 51 0	9364
Buttermire Hill -	72 56 0	
Walbury Intrenchment	91 59 10	17437
Buttermire Hill -	60 13 50	20076
Kintbury Steeple -	27 47 0	
Highclere Beacon -	14 52 0	58394
Gibbet on Ham Hill -	145 23 0	26373
Station near Hungerford	19 45 0	
Station near Hungerford	157 30 0	3040
Gibbet on Ham Hill -	2 17 0	29205
Hungerford Steeple -	20 13 0	
Tidcombe Down, *Ash*	77 45 0	23529
Up Ogbourne Barrow -	20 3 0	67067
Buttermire Hill -	82 12 0	
Up Ogbourne Barrow -	22 56 0	62443
Buttermire Hill -	68 33 0	26142
Tidcombe Down, *Thorn*	88 31 0	
Tidcombe Down, *Ash* -	43 17 50	23512
Highclere Beacon -	24 32 25	38823
Buttermire Hill -	112 9 45	
Tidcombe Down, *Ash* -	86 34 0	23522
Lord Elbury's Monument	35 25 0	40516
Buttermire Hill -	58 1 0	
Buttermire Hill -	13 39 0	26139
Tidcombe Down, *Ash*	106 57 0	6449
Tidcombe Down, *Thorn*	59 24 0	
Tidcombe Down, *Thorn*	58 55 0	55807
Buttermire Hill -	93 12 0	47868
Albury Steeple -	27 53 0	
Tidcombe Down, *Thorn*	3 28 20	31064
Buttermire Hill -	158 52 0	5218
Gibbet on Ham Hill	17 39 40	

Names of Stations and intersected Objects.	Angles for Calculation. ° ″ ′	Distances in Feet.
Tidcombe Down, *Thorn*	65 33 20	21187
Gibbet on Ham Hill -	40 51 40	29482
Great Bedwin Steeple -	73 35 0	
Great Bedwin Steeple	141 46 0	7760
Tidcombe Down, *Thorn*	9 59 0	27702
Little Bedwin Spire -	28 15 0	
Buttermire Hill -	87 9 0	5225
Uphursbourne Windmill	9 58 0	30152
Gibbet on Ham Hill -	82 53 0	
Highclere Beacon -	31 13 0	69288
Popham Beacon -	105 50 0	37326
Crawley Clump -	42 57 0	
Highclere Beacon -	50 0 10	27094
Popham Beacon -	33 15 0	37855
Hannington Steeple -	96 44 50	
Highclere Beacon -	13 53 0	33124
Popham Beacon -	25 10 0	18690
Knoll Hill, *South Ash*	140 57 0	
Highclere Beacon -	21 37 30	56715
Popham Beacon -	99 54 30	21218
Cranborne Clump -	58 28 0	
Highclere Beacon -	45 3 0	19206
Popham Beacon -	20 57 0	38016
Egbury Camp -	114 0 0	
Highclere Beacon -	9 37 0	56692
Crawley Clump -	35 16 0	16403
Cranborne Clump -	135 7 0	
Highclere Beacon -	5 16 0	24845
Knoll Hill, *Ash* -	15 13 0	8688
Direction Post, King's-sclose Road -	159 31 0	
Popham Beacon -	37 34 0	16607
Cranborne Clump -	51 30 0	12938
Stoke Charity Steeple -	90 56 0	
Popham Beacon -	58 24 0	18672
Hannington Steeple -	29 32 0	32263
Knoll Hill, *South Ash*	92 4 0	
Popham Beacon -	140 37 0	13555
Hannington Steeple -	17 45 0	28944
Laverstock Barrow -	121 38 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Crawley Clump -	20	34	0	24764
Popham Beacon -	31	36	0	16602
Stoke Charity Steeple -	127	50	6	
Windmill Hill - -	33	13	40	10303
Beacon Hill - -	2	34	20	125808
Biggs Farm, *Ash Tree*	144	12	0	
Windmill Hill - -	25	59	0	4818
Biggs Farm, *Ash Tree* -	19	28	0	6334
Dummer Steeple -	134	33	0	
Windmill Hill -	29	21	0	23676
Biggs Farm, *Ash Tree*	131	41	9	15538
South Litchfield Barn -	18	58	0	
Clay Hill Barrow -	9	33	0	66970
Beacon Hill - -	12	15	0	52366
Yarnsbury Castle -	158	12	0	
Beacon Hill - -	59	48	0	52363
Salisbury Spire -	65	52	0	49590
Yarnsbury Castle -	54	20	0	
Beacon Hill - -	13	44	0	64022
Yarnsbury Castle -	122	53	0	18098
Chittern Windmill -	43	23	0	
Beacon Hill - -	16	12	0	42814
Yarnsbury Castle -	46	43	0	16408
Maddington Windmill -	117	5	0	
Chittern Windmill -	106	33	0	16205
Yarnsbury Castle -	34	22	0	27518
Upton Barrow - -	39	5	0	
Clay Hill Barrow -	56	41	0	52703
Beacon Hill - -	26	31	0	98645
Fonthill Abbey -	96	48	6	
Clay Hill Barrow -	39	7	0	107542
Beacon Hill - -	63	32	0	75792
Milk Hill, *Thorn* -	77	21	0	
Beacon Hill - -	10	35	10	117240
Bradley Knoll - -	47	4	50	29412
Clay Hill Barrow -	122	20	10	
Beacon Hill - -	99	1	36	58085
Bradley Knoll - -	21	40	7	155360
Dean Hill - -	59	18	17	

Names of Stations and intersected objects.	Angles for Calculation °	′	″	Distances in Feet.
Beacon Hill - -	23	37	0	101366
Bradley Knoll - -	43	46	0	58707
Whitehorse Hill New Station - -	112	37	0	
Bradley Knoll -	40	46	0	33762
Clay Hill Barrow -	80	7	0	22378
Frome Spire - -	59	7	0	
Bradley Knoll -	41	32	0	31514
Clay Hill Barrow -	74	26	0	21691
Frome Asylum -	64	2	0	
Bradley Knoll - -	56	39	0	26555
Clay Hill Barrow -	56	16	0	26674
Lord Cork's House -	67	5	0	
Bradley Knoll - -	63	25	0	36844
Clay Hill Barrow -	68	35	0	35393
Whatley Spire -	48	0	0	
Bradley Knoll - -	79	59	0	44163
Clay Hill Barrow -	63	27	0	48616
Leigh Steeple -	36	34	0	
Bradley Knoll - -	48	41	0	45853
Clay Hill Barrow -	91	26	0	34450
Buckland Steeple -	39	53	0	
Bradley Knoll - -	45	59	0	64748
Clay Hill Barrow -	108	30	0	49099
Station north of Codford	25	31	0	
Bradley Knoll -	29	26	0	46167
Clay Hill Barrow -	115	27	0	25125
Beckington Steeple -	35	7	0	
Bradley Knoll -	34	6	0	93943
Clay Hill Barrow -	132	34	10	71515
Farley Down New Station	13	19	50	
Mendip - -	33	9	20	23573
Bradley Knoll - -	16	38	40	44152
Leigh Steeple -	129	52	0	
Mendip - -	36	15	0	38130
Bradley Knoll - -	35	50	30	33505
Crich Hill - -	107	54	30	
Bradley Knoll -	58	50	0	36443
Leigh Steeple -	50	57	0	40154
Berkeley Lodge -	70	13	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′			° ′ ″	
Bradley Knoll - -	16 35	36914	Clay Hill Barrow -	25 17 0	45819
Leigh Steeple -	50 12	13713	Milk Hill, *Thorn* -	16 29 20	68947
Whatley Spire - -	13 13		Steeple Ashton -	138 13 40	
Mendip - -	96 34 0	9014	Farley Clump -	24 32 0	69210
Leigh Steeple -	20 0	26183	White Horse Hill New Sta.	102 2 0	29383
Benager Steeple -	63 26		Clay Hill Barrow -	53 26 0	
Mendip - -	41 31	7690	Farley Clump -	44 11	34897
Leigh Steeple - -	15 58	18530	White Horse Hill New Sta	37 24	40043
Ashwick Steeple -	122 31		Melksham Steeple -	98 25	
Clay Hill Barrow -	4 44	39479	Clay Hill Barrow -	34 43	43448
Station near Codford -	18 28	10285	White Horse Hill New Sta.	104 21	25541
Upton Barrow -	56 48		Trowbridge Spire -	40 56 0	
Clay Hill Barrow -	4 6 0	44815	Clay Hill Barrow -	13 55	24266
Station near Codford -	36 4 0	5443	White Horse Hill New Sta.	45 2	8250
Codford St. Peter Steeple	39 50 0		Westbury Steeple -	21 3	
Clay Hill Barrow -	25 0 30	00429	Clay Hill Barrow -	46 22	53423
Farley Down New Station	114 40 0	46719	White Horse Hill New Sta.	00 57	39383
Rushden Huish Steeple	40 19 30		Bradford Windmill -	32 41 0	
Leigh Steeple -	14 18	40150	Clay Hill Barrow -	61 56	29537
Clay Hill Barrow -	45 37	13876	White Horse Hill New Sta.	59 17	30317
Berkeley Lodge -	120 5 0		Road Steeple - -	58 47	
Bradley Knoll -	10 8	97020	Clay Hill Barrow -	12 9 0	20805
Farley Down New Station	95 14	17141	White Horse Hill New Sta.	25 50 0	10047
Lansdown Clump	74 38		Windmill near Westbury	42 1	
Farley Down New Station	84 16	26731	Farley Clump - -	68 43	34878
Lansdown Clump -	61 27	30279	Clay Hill Barrow -	29 53	65228
Hinton Steeple -	34 17		Melksham Steeple -	81 24	
Farley Down New Station	131 39	8369	Road Steeple - -	132 7	7296
Lansdown Clump -	15 24	23549	Clay Hill Barrow -	8 56 0	34853
Kingsdown Clump -	32 57		Winchfield Steeple -	38 57 0	
Kingsdown Clump -	20 30	21833	Clay Hill Barrow -	49 49 0	21505
Farley Down New Station	147 40	14293	Windmill near Westbury	67 8 0	17831
St. Michael's Spire, Bath -	11 50		Standerwick House -	63 3 0	
White Horse Hill New Sta.	105 17	56835	Steeple Ashton -	26 16 0	17321
Bradley Knoll -	36 39	91846	Milk Hill, *Thorn* -	8 10 0	53962
Farley Clump - -	38 4		Seend Steeple - -	145 34 0	
White Horse Hill New Sta.	107 36	25551	Clay Hill Barrow -	44 59	62628
Bradley Knoll -	20 8	70756	Farley Down New Station	58 25	51969
Trowbridge Spire	52 16		Seend Steeple -	76 36 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Farley Down New Station	48	4	0	29296
Seend Steeple - -	33	56	0	39041
Corsham Spire - -	98	0	0	
Clay Hill Barrow -	43	43	0	48443
Melksham Steeple -	47	56	0	45098
Hinton Steeple -	88	21	0	
Hinton Steeple -	59	55	0	42785
Clay Hill Barrow -	53	54	0	45820
Steeple Ashton -	66	11	0	
Clay Hill Barrow -	39	48	0	13514
Station near Codford -	12	34	0	39647
Barrow on Limekiln Hill	127	46	0	
Clay Hill Barrow -	33	42	0	14265
Limekiln Hill Barrow -	78	15	0	8084
Bishopstrow Spire -	68	3	0	
Beacon Hill - -	15	57	0	98670
Bradley Knoll -	33	52	0	48656
Fonthill Abbey -	130	11	0	
Bradley Knoll - -	32	36	0	19674
Fonthill Abbey -	18	17	0	33787
Kingston Deverill Hill -	129	7	0	
Bradley Knoll - -	11	18	0	19725
Kingston Deverill Hill -	85	6	0	38792
Kingston Deverill Spire -	83	36	0	
Compton Clump -	143	52	20	14111
Ridge Hill - -	11	32	0	41611
Fonthill Abbey -	24	35	40	
Ridge Hill - -	56	4	0	5679
Fonthill Abbey - -	23	18	0	11912
Thirteen mile stone -	100	38	0	
Fonthill Abbey -	16	6	0	54322
Compton Clump -	125	5	0	18409
Barn north of Wilton -	38	49	0	
Barn near Wilton -	21	46	0	12973
Compton Clump -	37	6	0	7975
Barrow South of Barford	121	8	0	
Barn near Wilton -	63	39	30	7302
Barrow near Barford -	33	55	0	11728
Wilton Steeple -	82	25	30	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Compton Clump -	52	38	0	9309
Barrow near Barford -	72	33	0	7755
Barford St. Martin Steeple	54	49	0	
Compton Clump -	32	43	0	8317
Barn near Wilton -	21	30	0	12265
Three Fir Trees south of Barford - -	125	47	0	
Compton Clump -	127	25	0	14112
Three Fir Trees -	33	34	0	20272
Baverstock Steeple -	19	1	0	
Mendip - - -	60	12	20	85802
Dundry - -	70	21	20	79062
Farley Down New Station	49	25	20	
Farley Down New Station	13	20	0	41069
Dundry - -	13	37	0	40230
Stantonbury Hill -	153	3	0	
Stantonbury Hill -	59	33	0	15781
Dundry - -	22	53	0	34986
Pollard on Beacon Hill	97	34	0	
Dundry - -	13	49	0	45377
Stantonbury Hill -	109	29	0	11485
Priest Barrow - -	56	42	0	
Stantonbury Hill -	66	21	0	9346
Beacon Hill, *Pollard* -	35	26	0	14767
Compton Dando Steeple	78	13	0	
Stantonbury Hill -	21	34	0	4649
Beacon Hill, *Pollard* -	8	29	0	11584
Marksbury Steeple -	149	57	0	
Stantonbury Hill -	115	52	0	18129
Beacon Hill, *Pollard* -	34	33	0	28763
Keynsham Steeple -	29	35	0	
Stantonbury Hill -	28	0	0	20199
Beacon Hill, *Pollard* -	102	13	0	9702
Stantonwick Glass House	49	47	0	
Stantonbury Hill -	158	43	0	10407
Beacon Hill, *Pollard* -	81	26	0	25277
Newton Steeple -	12	51	0	
Stantonbury Hill -	11	33	0	25276
Keynsham Steeple -	142	40	0	8345
Dr. Foxe's House	25	47	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Dundry -	49 27	33738	White Horse Hill	13 12 0	31519
Beacon Hill Pollard	63 1	28767	Roundaway Castle	152 29 0	15578
Keynsham Steeple	67 32		Beenham Spire		

ART. VIII. *Secondary Triangles for the Survey of the County of Sussex. Plate* VIII.

The Distances serving as Base Lines for the following Triangles are

Chanctonbury Ring to	Highdown Windmill - - - -	29442
	Lord Egremont's Summer House	70219
Leith Hill to -	Crowborough Beacon -	128332
	Horsham Spire - -	43558

Highdown Windmill -	55 24 0	40715	Egremont's Summer House	47 10 0	21750
Chanctonbury Ring -	79 19 0	34105	Hascombe Hill Telegraph	22 14	42153
Shoreham Steeple -	45 17 0		Black Down Telegraph	110 36	
Highdown Windmill -	63 53	12676	Egremont's Summer House	75 51 0	62204
Chanctonbury Ring	25 30	26438	Hascombe Hill Telegraph	57 23 0	71610
West Tarring Spire -	90 37		Shipley Spire	46 46 0	
High Down Windmill	36 6	27140	Egremont's Summer House	74 25	71780
Chanctonbury Ring -	64 50	17668	Hascombe Hill Telegraph	63 28 0	77281
Steep Down - -	79 4		Grinstead Park House	42 7 0	
Highdown Windmill -	62 52	29390	Egremont's Summer House	18 39 0	44179
Chanctonbury Ring -	58 29	30681	Hascombe Hill Telegraph	49 57 0	18502
Lancing, Great House	58 39		Alfold Spire - -	111 34 0	
Highdown Windmill -	54 57	29640	Egremont's Summer House	59 57	44018
Shoreham Steeple -	45 41	33914	Hascombe Hill Telegraph	50 11	49605
Chanctonbury Fire Beacon	79 22		Billinghurst Spire -	69 52	
Highdown Windmill -	45 43	8194	Egremont's Summer House	43 44 0	22961
Shoreham Steeple -	9 31	35482	Hascombe Hill Telegraph	23 6	40458
Goring Spire -	124 46		Kirford Steeple -	113 10 0	
Shoreham Steeple -	19 6	20688	Hascombe Hill Telegraph	72 19 0	18520
Chanctonbury Fire Beacon	25 14	15879	Blackdown Telegraph -	25 47	40566
Bramber Castle -	135 40		Alfold Spire - -	81 54	
Egremont's Summer House	0 11	70420	Hascombe Hill Telegraph	102 38	31156
Chanctonbury Ring -	134 41	301	Black Down Telegraph	31 50	57636
Chanctonbury Fire Beacon	48 8		Rudgwick Steeple -	45 32	
Egremont's Summer House	102 5	53806	Hascombe Hill Telegraph	103 19 0	60675
Chanctonbury Fire Beacon	32 2	97703	Black Down Telegraph	46 27	81465
Hascombe Hill Telegraph	44 38		Horsham Spire -	30 14	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Rooks Hill - -	88° 51′ 16″	73754
Chichester Spire -	74 55	76370
High Down Windmill	16 13 36	
Chichester Spire -	9 59	52205
Highdown Windmill -	19 56	26546
Arundel Spire -	150 5 0	
Chichester Spire -	20 33 40	76355
Highdown Windmill -	79 41 20	27257
Storrington Hill, Barrow	79 45	
Chichester Spire -	29 56	52187
High Down Windmill	39 54	40597
Bury Hill - -	110 10	
Bury Hill - -	41 35 30	26277
High Down Windmill	39 47 20	27257
Storrington Hill Barrow	98 37 10	
Bury Hill - -	39 23	24396
High Down - -	35 27	26688
Storrington Hill, *Tree*	105 10 0	
Bury Hill - -	31 53	56868
Storrington Hill Barrow	126 14	37238
Shipley Spire - -	21 53	
Bury Hill - -	32 4 0	35673
Storrington Hill Barrow	101 47 20	19347
Warminghurst Spire -	46 8 40	
Bury Hill - -	54 8	25954
Storrington Hill, *Tree*	66 24	22952
Pulborough Spire -	59 28 0	
Bury Hill - -	51 55	25970
Storrington Hill Barrow	53 21	22871
Pulborough Spire -	64 44	
Bury Hill - -	9 5	32788
Storrington Hill Barrow	39 41	8000
Sullington Windmill -	31 14 0	
Steep Down - -	52 12	8317
Chanctonbury Ring -	28 24	14150
Intrenchment, Gisbury Hill	99 24 0	
Egremont's Summer House	07 8	21749
Billinghurst Spire -	22 24	54540
Blackdown Telegraph -	50 28	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Egremont's Summer House	79 25 0	50893
Black Down Telegraph	76 2 0	51560
Beacon Hill Telegraph	24 30 0	
Egremont's Summer House	49 1 0	9905
Black Down Telegraph	26 7 0	16986
Red Hill Windmill -	104 52 0	
Egremont's Summer House	90 53 0	27943
Black Down Telegraph	46 4 0	31855
Kirford Steeple -	43 3 0	
Egremont's Summer House	114 27 0	26986
Black Down, Telegraph	36 44 0	41073
Keyshot Hill, Barrow	28 49 0	
Black Down Telegraph	16 38 0	7449
Red Hill Windmill -	12 13 0	10077
Lurgershall Spire -	151 9 0	
Hascombe Hill Telegraph	56 57 0	31162
Kirford Steeple -	48 4 0	35111
Rudgwick Steeple -	74 59 0	
Egremont's Summer House	54 44	52579
Billinghurst Spire -	72 21	45050
Ash Tree, above Torrington	52 55	
Egremont's Summer House	42 40 0	25126
Ash Tree, above Torrington	26 32 0	38119
Duncton Fire Beacon -	110 48 0	
Black Down Telegraph	41 51	9210
Red Hill Windmill -	31 15	11844
North-Chapel Spire -	06 54	
Black Down Telegraph	65 44	15772
Red Hill Windmill -	53 51	17807
Shillingly, Park Lodge -	60 25	
Egremont's Summer House	52 44	8166
Duncton Fire Beacon -	17 51	21202
Petworth Steeple -	09 25	
Egremont's Summer House	47 25	20805
Duncton Fire Beacon -	54 12	18887
Codmoor Hill -	78 23	
Duncton Fire Beacon	36 20 0	15576
Codmoor Hill - -	55 31 0	11196
Waterfield Windmill -	88 9 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Duncton Fire Beacon -	59 47 0	23151
Codmoor Down -	70 7 0	21274
Amberley Steeple -	50 6 0	
Duncton Fire Beacon -	23 27 0	23131
Waterfield Windmill -	121 31 0	10798
Amberley Steeple -	35 2 0	
Amberley Steeple -	39 12 0	19426
Codmoor Down -	63 8 0	13763
Pulborough Spire -	77 40 0	
Duncton Fire Beacon -	20 15 0	15910
Amberley Steeple -	33 50 0	9899
Bury Hill -	25 55 0	
Amberley Steeple -	91 26 0	10006
Bury Hill - -	44 35 0	14251
Cold Waltham Steeple	43 59 0	
Heyshot Hill Barrow -	87 57 0	32644
Black Down Telegraph	39 16 0	51544
Beacon Hill Telegraph	52 47 0	
Heyshot Hill Barrow -	58 31 0	17073
Beacon Hill Telegraph	31 32 0	27839
Midhurst Steeple -	89 57 0	
Heyshot Hill Barrow -	116 40 0	27063
Beacon Hill Telegraph	28 21 0	50881
Egremont's Summer House	34 59 0	
Beacon Hill Telegraph	34 57 0	13623
Midhurst Steeple -	25 5 0	18409
Barrow, east of Beacon Hill	119 58 0	
Beacon Hill Telegraph	71 58 0	5405
Barrow, east of Beacon Hill	23 16 0	13008
Elsted Steeple -	84 46 0	
Beacon Hill Telegraph	89 45 0	33469
Barrow east of Beacon Hill	68 4 0	36081
Milland House -	22 11 0	
Beacon Hill Telegraph -	31 44 20	13628
Egremont's Summer House	10 20 20	39945
Barrow, east of Beacon Hill	137 55 20	
Egremont's Summer House	70 12 0	42353
Barrow east of Beacon Hill	57 17 0	47363
Lynchmere Steeple -	52 31 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ″ ′	Distances in Feet.
Duncton Fire Beacon -	44 0 0	15872
Waterfield Windmill -	69 20 0	31654
Bury Hill - -	66 40 0	
Duncton Fire Beacon -	116 21 0	21234
Bury Hill - -	36 57 0	31654
Petworth Steeple -	26 42 0	
Arundel Spire -	55 19 0	8356
Highdown Windmill -	17 30 0	22849
Leominster Steeple -	107 11 0	
Highdown Windmiill -	158 57 0	8188
Arundel Spire - -	4 55 0	34314
Goring Spire - -	16 8 0	
High Down Windmill	46 39 0	21234
Arundel Spire -	52 13 0	19537
Little Hampton Windmill	81 8 0	
Highdown Windmill	54 32 0	10774
Arundel Spire -	23 23 0	22111
Preston Spire - -	102 5 0	
Highdown Windmill -	47 22 0	15305
Arundel Spire -	34 50 0	19713
Rustington Steeple -	97 48 0	
Crowborough Beacon -	0 1 10	128338
Leith Hill Station -	98 35 0	44
Leith Hill Tower -	81 23 50	

Horsham Spire to Leith Hill 43558.

Horsham Spire -	0 2 16	43526
Leith Hill - -	41 20 0	44
Leith Hill Tower -	138 37 44	
Leith Hill Tower -	27 1 0	44658
Horsham Spire - -	79 33 0	20628
Colgate Hill Fire Beacon	73 26 0	
Leith Hill Tower -	30 14 0	44665
Crowborough Beacon	14 4 0	92526
Colgate Hill Fire Beacon	135 42 0	
Crowborough Beacon -	74 22 0	72134
Leith Hill Tower -	32 32 0	129169
Mount Harry Fire Beacon	73 6 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′				
Crowborough Beacon -	18 10	103650	Crowborough Beacon -	7 3 30	26020
Leith Hill Tower -	47 16	43996	Witchcross Beach -	56 27	3136
Reigate West Windmill	114 34		Witchcross Clump -	16 29 30	
Crowborough Beacon -	21 0	77497	Reigate West Mill -	66 53 0	42672
Leith Hill Tower - -	26 23	62498	Leith Hill Tower -	55 14 0	47775
Outwood Smock Windmill	132 37		Crawley Steeple -	57 53 0	
Crowborough Beacon -	69 51 0	54107	Leith Hill - -	87 30 0	21443
Mount Harry Beacon -	43 31 0	73770	Reigate West Windmil	26 27	48096
Selswell Windmill -	66 38 0		Shire Mark Windmill	66 3	
Crowborough Beacon -	64 10 30	48316	Reigate West Windmill	14 59 0	55617
Mount Harry Beacon -	40 24 30	07091	Crawley Steeple -	127 33 0	18136
West Hoathley Spire -	75 25 10		Celgate Fire Beacon -	37 28 0	
Crowborough Beacon -	63 18 0	27943	Crawley Steeple - -	38 31 0	35518
Mount Harry Beacon -	22 44 0	64598	Reigate West Windmill	56 4 0	20659
Witchcross Beech -	93 58 0		Outwood Smock Windmill	85 25 0	
Crowborough Beacon -	77 48 30	14321	Mount Harry Fire Beacon	11 23 0	30093
Mount Harry Beacon	11 27 0	70514	Selswell Windmill -	7 38 30	44066
Deal Mount Clump -	90 44 30		Chailey Windmill -	160 58 30	
Leith Hill Tower -	29 15 30	74532	Leith Hill Tower -	26 13 0	81651
Mount Harry Beacon -	29 35 30	73767	Selswell Windmill -	87 58	36593
Selswell Windmill -	121 9 0		Cuckfield Spire -	65 49	
Selswell - - -	38 21 0	7699	Crowborough Windmill	14 41 0	14330
Crowborough Beacon -	5 40 30	48306	Reigate West Windmill	2 19 0	89061
West Hoathley Spire -	135 58 30		Deal Mount Clump -	163 0 0	
Crowborough Beacon -	22 38 0	103623	Reigate West Windmill	12 59	62775
Selswell Windmill -	136 10 0	57579	Crowborough Windmill	18 22	44759
Reigate West Windmill	21 12 0		Beech Hill, *Tree* -	148 39	
Crowborough Beacon -	30 30	69991	Mount Harry -	32 18	47313
Selswell Windmill -	99 54	30060	Chailey Windmill -	11 23	27151
Cuckfield Spire -	49 36		Maresfield Steeple -	36 19	
Selswell Windmill -	55 13	35720	Chailey Windmill -	13 7 30	31790
Crowborough Beacon -	41 1	44703	Selswell Windmill -	27 46 30	15491
Beech Hill, *Tree* -	83 46		Ardingly Spire -	39 6 0	
Crowborough Beacon -	26 22	44692	Chailey Windmill -	147 51 0	31811
Witchcross Beech -	121 22	23245	Mount Harry Beacon -	16 32 0	59486
East Grinstead Spire -	32 16		Ardingly Spire -	15 37 0	
Crowborough Beacon -	67 35	41531	Crawley Steeple	105 28 0	21288
Witchcross Beech -	78 30	40256	Leith Hill Tower	21 0 0	57255
Mark Beech, *Oak* -	39 55 0		Burston Spire	53 32 0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Crawley Steeple -	70	4	0	20665
Leith Hill Tower -	25	30	0	45126
Horley Steeple -	84	26	0	
Leith Hill Tower -	9	10	0	56854
Crawley Steeple -	132	41	0	12321
Kilgate Heath, *House*	38	9	0	
Deal Mount Clump	107	52	0	34894
Crowborough Beacon -	53	0	0	41585
Mark Beech - -	19	8	0	
Mark Beech - -	21	40		39937
Deal Mount Clump -	98	34		14911
Crowborough Windmill	59	46		
Mark Beech - -	19	21	30	36574
Deal Mount Clump	88	10	0	12129
Witchcross Large Clump	72	28	30	
Mark Beech - -	23	52	0	7749
Deal Mount Clump - -	6	26	0	27984
Cowden Spire - -	149	42	0	
Witchcross, Beech -	16	4		3844
Mark Beech - -	1	40		36578
Witchcross, Large Clump	162	16		
Mark Beech - -	40	50	0	39923
Witchcross, Large Clump	76	17	0	26870
Crowborough Windmill	62	53	0	
Witchcross Large Clump	38	39	0	36535
Crowborough Windmill	94	10	0	22879
Groombridge Steeple	47	11	0	
Deal Mount Clump -	81	44	0	28043
Witchcross Large Clump	73	44	0	28308
Cowden Spire - -	24	32	0	
Deal Mount Clump	99	26	0	12939
Witchcross Large Clump	41	51	0	19130
Hartfield Spire -	38	43	0	
Deal Mount Clump -	118	9	0	12458
Witchcross Large Clump	31	23	0	21093
Withyham Steeple -	30	28	0	
Leith Hill Tower -	15	56	30	63603
Outwood Smock Windmill	85	36	30	17520
Nutfield Windmill	78	27	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Crawley Steeple -	14	34		49448
Outwood Smock Windmill	134	49		17532
Nutfield Windmill	30	38	0	
Crawley Steeple -	33	16		23542
Outwood Smock Windmill	39	12		20432
Capt Thorn Windmill	107	32	0	
Outwood Smock Windmill	28	20		19313
Crawley Steeple -	26	20		20663
Horley Spire - -	125	20	0	
Outwood Smock Windmill	11	49	0	26730
Crawley Steeple -	30	20	0	10839
Lowfield Heath Windmill	137	51	0	
Crawley Steeple -	23	41		21274
Nutfield Windmill -	15	55		31160
Burstow Spire -	140	24	0	
Crawley Spire -	47	53	0	23528
Nutfield Windmill -	27	24	0	37923
Capt Thorn Windmill	104	43	0	
Crawley Steeple -	101	40	0	20921
Nutfield Windmill -	20	53	30	57455
Rusper Steeple -	57	26	30	
Nutfield Windmill -	16	11	0	39648
Capt Thorn Windmill	90	48	0	11051
Felbridge Monument	73	1	0	
Colgate Fire Beacon -	67	23	30	15965
Crawley Steeple -	50	51		19005
Hand Cross Clump -	61	45	30	
Reigate West Windmill	14	29		61660
Colgate Fire Beacon -	104	50		15953
Hand Cross Clump	60	41		
Leith Hill Tower -	38	2	0	33821
Colgate Fire Beacon -	49	9	0	27548
Charlewood Steeple -	92	49	0	
Leith Hill Tower -	64	36	30	28843
Nutfield Windmill -	26	57	30	57480
Rusper Steeple -	88	26	0	
Crawley Steeple -	12	9		12927
Hand Cross Clump -	20	20		7448
Kilgate Heath, *House* -	147	31	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Outwood Smock Windmill	73	30	0	26706	Maresfield Steeple -	115	3	0	15259
Reigate West Windmill	53	19	0	31929	Mount Harry -	14	25	0	55522
Lowfield Heath Windmill	53	11	0		Netley End, *Large Fir*	50	32	0	
Maresfield Steeple -	46	35		12207	Chanctonbury Ring -	9	45	1	60736
Mount Harry Fire Beacon	12	50		39921	Leith Hill Station -	13	39	33	43558
Fletching Spire -	120	35	0		Horsham Spire -	156	35	27	

ART. IX. *Secondary Triangles for the Survey of the County of Surrey. Plate 9.*

The Distances serving as Base Lines for the following Triangles are

Hundred Acres to	Hanger Hill Tower	71932 Feet.
St. Ann's Hill to	Hanger Hill Tower	68896
	Banstead	76688
	Sunbury Steeple	26022
	Stanwell Spire	23720
	King's Arbour	34455
	Bagshot Heath	46955
Severndroog Tower to	Hanger Hill Tower	84375
	Bromley Steeple -	24930

Hundred Acres	42	3	56	35957	St. Ann's Hill -	143	48	0	476
Hanger Hill -	28	2	10	51254	Banstead Spire -	0	12	12	79324
Streatham Spire	109	53	54		St. Ann's Clump	35	59	48	
Hundred Acres	27	51	56	47896	Banstead - -	15	13	40	14545
Streatham Spire	105	55	10	23279	Harrow Spire -	2	36	20	84035
Fulham Steeple	46	12	54		Yewell Steeple -	162	10	0	
St. Ann's Hill -	62	10	30	78939	Banstead -	32	11	0	11276
Hanger Hill Tower	65	20	40	76811	Yewell Steeple -	50	13	0	7815
Banstead Spire	52	29	10		Epsom Spire -	97	36	0	
St. Ann's Station	16	15	40	48919	Hanger Hill Tower	58	57	20	76811
Banstead Station	25	23	22	33062	Severndroog Tower	55	46	35	79599
Cockerow Hill -	137	45	58		Banstead Spire -	65	16	5	
St. Ann's Hill -	79	1	50	77301	Banstead Spire -	18	56	0	55614
Banstead Station	50	45	40	97982	St. Ann's Hill, Clump	34	2	0	32242
Harrow Spire	59	12	30		Pain's Hill Spire -	127	2	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Pain's Hill Spire -	40 22	5911
St. Ann's Clump -	7 51 30	28001
George's Tree - -	131 46 30	
Banstead Spire -	6 5 0	55587
Pain's Hill Spire -	86 42 0	5900
George's Tree -	87 13 0	
Pain's Hill - -	78 2 0	7595
George's Tree -	59 46 0	8599
Byfleet Spire -	42 12 0	
Pain's Hill - -	76 22 0	19751
George's Tree -	86 16 30	19235
Holly, Okeshut Warren	17 21 30	
St. George's Tree - -	60 29 0	28023
Holly, Okeshut Warren	77 27 0	24983
Effingham Steeple - -	42 4 0	
Pain's Hill Spire -	5 50	26932
Holly, Okeshut Warren	158 45 30	7555
Cabbage Hill Telegraph	15 24 30	
Pain's Hill Spire -	27 46 0	29622
Cabbage Hill Telegraph	87 0 30	13819
Leatherhead Steeple -	65 13 30	
St. Ann's Clump -	39 23 8	32574
Pain's Hill Spire -	71 7 40	21842
Woking Monument	69 29 20	
St. Ann's Clump -	57 25 0	49605
Pain's Hill Spire -	82 28 0	42161
Warplesdon Steeple -	40 7 0	
St. Ann's Clump -	45 19	60450
Pain's Hill Spire -	103 26	44189
Guildford Steeple -		
Woking Monument -	133 25 30	21210
St. Ann's Clump -	18 5 30	49606
Worplesdon Steeple -	28 29 0	
Woking Monument -	102 2 30	23375
Pain's Hill Spire - -	40 33 0	35164
Merrow Steeple - -	37 24 30	
Woking Monument -	66 22	37962
Pain's Hill Spire	79 13	35404
Nettlebeath Telegraph	34 25	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Woking Monument -	33 7 0	16093
Pain's Hill Spire -	46 26 0	12135
Ockham Steeple -	100 27 0	
Woking Monument -	63 16 30	26343
Pain's Hill Spire -	66 59 0	25564
West Horseley Mill -	49 44 30	
Woking Monument	123 16 0	28232
Pain's Hill Spire -	32 18 30	44167
Guildford Steeple -	24 25 30	
Guildford Steeple -	9 38 0	31754
Woking Monument -	120 3 0	6139
Pirford Steeple -	50 19 0	
Guildford Steeple -	119 51 0	12123
Woking Monument -	17 3 30	35843
Yew Tree, Hog's Back	43 5 30	
Guildford Steeple -	47 59	15875
Woking Monument -	33 49	21192
Worplesdon Steeple -	98 12	
Guildford Steeple -	52 48	10642
Woking Monument -	21 15	23388
Merrow Steeple -	105 57	
Guildford Steeple -	92 56	31646
Woking Monument -	46 38	43474
Romping Down, *Clump*	40 26	
Guildford Steeple -	20 22 0	49083
Woking Monument -	136 9 0	24658
George's Tree -	23 29 0	
Guildford Steeple -	68 20	15891
George's Tree -	18 52	45669
Worplesdon Steeple -	92 48 0	
Woking Monument -	116 49 0	31179
George's Tree -	35 42 0	47684
St. Martha's Chapel -	27 29 0	
Woking Monument -	64 39 0	29134
George's Tree -	65 10 0	29011
East Horseley Steeple -	50 11 0	
Woking Monument -	17 39	29033
George's Tree -	108 52	9302
Cobham Spire - -	53 29 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Woking Monument -	120 6 0	9342
George's Tree - -	15 24 0	30436
Horsehill Steeple -	44 30 0	
Woking Monument -	79 16 0	37957
George's Tree - -	64 45 0	41233
Nettleheath Telegraph	35 59 0	
Guildford Steeple -	71 49 0	12116
Worplesdon Steeple	43 38 0	16720
Yew Tree, Hog's Back	64 33 0	
Yew Tree, Hog's Back	82 51 0	22739
Worplesdon Steeple -	58 23 0	26495
Ash Spire - -	38 46 0	
East Horseley Steeple	17 14 0	27188
George's Tree - -	69 18 0	8610
Byfleet Spire - -	93 28 0	
St. Ann's Hill - -	11 24 0	48919
Sunbury Steeple -	156 12 30	23968
Cockcrow Hill -	12 23 30	
St. Ann's Hill - -	79 1 30	14206
Sunbury Steeple -	30 53 0	27170
Staines Steeple -	70 5 30	
St. Ann's Station -	27 14 0	20959
Sunbury Steeple - -	52 24 0	12106
Oatlands, Temple -	100 22 2	
Sunbury Steeple -	37 20 0	55141
Cockcrow Hill -	120 43 30	38901
Headley Steeple -	21 56 30	
Sunbury Steeple -	45 52 0	19230
Cockcrow Hill - -	52 32 0	17389
Ellis's Summer House	81 36 0	
Sunbury Steeple -	13 53 0	9069
Cockcrow Hill -	8 10 0	15319
West Moulsey Steeple -	157 57 0	
Sunbury Steeple -	22 58 30	24020
Cockcrow Hill -	78 49 0	9557
Kingston Steeple - -	78 12 30	
Sunbury Steeple -	99 11 0	6670
West Moulsey Steeple -	33 1 0	12086
Walton Steeple -	47 48 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Kingston Steeple -	102 54 0	14740
Sunbury Steeple -	27 45 0	30861
Star and Garter Inn, Richmond - -	49 21 0	
Cockcrow Hill -	99 46 0	27627
Kingston Steeple -	62 23 0	30727
Sutton Steeple -	17 51 0	
Cockcrow Hill -	87 7 0	11365
Kingston Steeple -	51 38 0	14477
Maldon Steeple -	41 15 0	
Woking Monument -	153 53 0	6145
Worplesdon Steeple -	5 47 0	26847
Pirford Steeple -	20 20 0	
Yew Tree, Hog's Back	104 15 0	22764
Woking Monument	28 1 30	46958
Ash Spire - -	47 43 30	
Yew Tree, Hog's Back	14 47 0	36495
Woking Monument -	86 35 0	9329
Horsehill Steeple -	78 38 0	
Yew Tree, Hog's Back	28 2 0	43587
Woking Monument -	97 19 0	20654
Chobham Spire -	54 39 0	
Yew Tree, Hog's Back	13 15 0	43573
Horsehill Steeple -	120 39 0	11609
Chobham Spire -	46 6 0	
St. Ann's Hill -	20 14 0	14195
Stanwell Spire -	25 16 0	11501
Staines Steeple -	134 30 0	
St. Ann's Hill -	31 29 32	14304
Bagshot Heath -	12 8 5	35553
Duke of Glocester's Tower	136 22 3	
St. Ann's Hill -	81 58 10	20959
King's Arbour -	33 21 20	37745
Oatlands, Temple -	64 40 30	
St. Ann's Hill - -	38 44 0	476
Staines Steeple -	1 14 0	13827
St. Ann's Hill Clump -	140 2 0	
Staines Steeple -	17 17 0	16352
St. Ann's Hill - -	106 84 0	5078
Chertsey Steeple - -	56 9 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet
	°	′	″	
Staine's Steeple -	18	29	0	16391
St. Ann's Hill Clump	108	18	0	5473
Chertsey Steeple -	53	13	0	
St. Ann's Hill Clump	45	2	0	19509
Staines Steeple -	89	50	0	13803
Ashford Spire -	45	8	0	
St. Ann's Hill Clump	15	16	0	28269
Staines Steeple -	98	35	0	22450
Feltham Spire -	29	9	0	
St. Ann's Hill Clump -	38	50	0	27474
Staines Steeple -	113	44	0	18819
Bedfont Steeple -	27	26	0	
St. Ann's Hill Clump	79	4	0	13887
Staine's Steeple -	50	37	0	17641
Duke of Glocester's Tower	50	19	0	
St. Ann's Clump -	27	14	0	12999
Staines Steeple -	69	7	0	6366
Egham Spire - -	83	39		
St. Ann's Hill Clump	21	21	3	3329
Staines Steeple - -	6	27	0	10794
Thorpe Steeple -	152	11	30	
St. Ann's Hill Clump -	58	29		9000
Staine's Steeple -	40	4	0	11920
Leleham Steeple -	81	27	0	
Severndroog Tower -	44	2	10	29989
Bromley Steeple -	80	48	50	21116
Sydenham Common -	55	9	0	
Severndroog Tower -	31	55	0	52842
Sydenham Common -	118	1	0	31646
Combehurst - -	30	4	0	
Severndroog Tower -	10	55	0	42804
Sydenham Common -	146	3	0	14515
Buxton Windmill -	23	2	0	
Bromley Steeple -	76	40	0	28927
Sydenham Common -	62	50	0	31638
Combehurst - -	40	30	0	
Severndroog Tower -	12	37	40	74622
Combehurst - -	140	45	41	25790
Pollard, Banstead Down	26	36	40	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°			
Severndroog Tower -	5	0	30	60553
Combehurst - -	144	45		9159
Beggar's Bush - -	30	14	30	
Banstead Down, Pollard	21	31		23519
Combehurst - -	65	37		9471
Croydon Steeple -	92	52		
Banstead Down, Pollard	84	24	0	34063
Combehurst - -	56	28	0	40668
Wimbledon Spire -	39	8	0	
Combehurst - -	69	37	30	9168
Croydon Steeple -	53	51	0	10641
Beggar's Bush - -	56	31	90	
Combehurst -	50	25	0	22189
Croydon Steeple -	105	16	0	17726
Carshalton Windmill	24	19	0	
Combehurst -	154	7	0	5811
Croydon Steeple -	9	47	30	14916
Sanderstead Spire -	16	5	30	
Combehurst -	114	40	30	18330
Croydon Steeple -	44	12	30	23888
Coulsdon Spire - -	21	7	0	
Combehurst - -	84	50		30476
Beggar's Bush -	78	3	0	31024
Streatham Spire -	17	7	0	
Combehurst - -	26	45	30	28036
Streatham Spire - -	66	40	30	13746
Mitcham Steeple -	86	34	0	
Combehurst - -	10	57		30857
Mitcham Steeple -	111	5		6282
Tooting Steeple -	57	58		
Combehurst - -	51	11	30	19636
Bromley Steeple -	42	38	0	22592
Norwood House -	86	10	30	
Combehurst - -	16	22	30	24499
Bromley Steeple -	51	52	30	8781
Beckingham Spire -	111	45	30	
Croydon Steeple - -	76	29	0	31043
Banstead Down, Pollard	61	41	0	34286
Earl Spencer's House -	41	50	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Combehurst - -	134 48 30	24498	Botley Hill -	99 54 0	14052
Banstead Down, *Pollard*	21 59 0	46282	Leith Hill - -	8 17 0	96084
Beckingham Spire -	23 12 30		Golden Square -	71 49 0	
Combehurst -	88 27 0	5806	Golden Square -	31 38 0	14911
Banstead Down, Pollard	12 45 30	26282	Botley Hill - -	80 9 30	7937
Sanderstead Spire -	78 47 30		Tatesfield Spire -	68 12 30	

ART. X. *Secondary Triangles for the Survey of Middlesex and Hertfordshire. Plate* 10.

The Distances serving as Base Lines for the following Triangles are,

Hampstead Heath to	Severndroog Tower -	64855 Feet
	High Beech - -	59455
Stanmore Station to	Pen Steeple - -	75325
	Kensworth - - -	98577
	Hanger Hill Tower - -	37431
Highgate Chapel to Argyle Street Observatory - -		20766
Lillyhoe to Royston - - - -		79867

Severndroog Tower -	19 34 54	84374	Stanmore Station - -	61 20 48	29035
Hampstead Heath -	117 22 12	31843	Harrow Spire -	82 21 0	25708
Hanger Hill Tower -	43 2 54		Hendon Steeple -	36 18 12	
Hampstead Heath -	115 39 58	43671	Harrow Spire - -	25 7 0	25727
Highbeech - -	26 04 7	87699	Hampstead Spire -	40 4 30	16962
Stanmore Station -	37 39 55		Hendon Steeple -	114 48 30	
Stanmore Station -	5 40 53	48315	Harrow Spire - -	121 40 0	27838
Hampstead Heath -	132 39 30	6504	Hampstead Spire -	24 58 0	56134
Highgate Chapel -	41 39 37		Hayes Steeple -	33 22 0	
Pen Steeple - -	12 21 17	79992	Harrow Spire - -	45 9 0	11968
Stanmore Station -	99 20 18	17345	Stanmore Station -	43 37 0	12308
Harrow Spire -	68 18 25		Pinner Steeple -	91 14 0	
Stanmore Station -	10 17 51	17345	Harrow Spire - -	97 56 0	42784
Hanger Hill Tower -	8 39 23	20553	Stanmore Station -	61 14 15	48334
Harrow Spire -	161 2 46		Highgate Chapel -	20 49 10	
Stanmore Station -	40 38 20	44667	Harrow Spire -	48 1 0	16500
Hanger Hill Tower -	83 4 10	29305	Stanmore Station -	62 47 0	13792
Hampstead Spire -	56 17 30		Little Stanmore Steeple	69 12 0	
Stanmore Station -	50 46 12	17343	Harrow Spire -	80 47 0	20151
Hampstead Spire -	21 44 17	36274	Stanmore Station -	54 39 0	24398
Harrow Spire -	107 29 31		Ruislip Steeple -	44 34 0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Harrow Spire -	68	12	0	31302
Hanger Hill Tower -	58	0	0	36892
Hillingdon Steeple -	33	48	0	
Highgate Chapel -	67	50	0	17561
Harrow Spire -	24	13	0	39647
Finchley Lodge, Direction Post - - -	87	57	0	
Hillingdon Steeple -	110	50	0	5986
Harrow Spire - -	9	30	0	33895
Uxbridge Steeple - -	59	40	0	
Hillingdon Steeple -	71	34	0	11245
Uxbridge Steeple -	77	10	0	10941
Iver Steeple -	31	16	0	
Uxbrige Steeple -	36	23	0	6961
Hillingdon Steeple -	84	43	0	4156
Cowley Steeple -	58	54	0	
Hayes Steeple -	59	59	0	17968
Harrow Spire - -	39	31	0	24439
Harefield Steeple -	80	30	0	
Hanger Hill Tower -	66	14	0	8351
Hampstead Spire -	16	25	0	27042
Acton Steeple -	97	21	0	
Hanger Hill Tower -	59	45	0	7058
Acton Steeple -	51	44	0	7757
Ealing Steeple -	68	26		
Acton Steeple -	98	31	0	9300
Hampstead Spire -	17	56	0	29871
Chiswick Steeple -	63	33	0	
Harrow Spire - -	58	23		16029
Hendon Steeple -	38	15		22050
Great Stanmore Steeple -	83	21		
Harrow Spire -	76	2	30	13109
Great Stanmore Steeple	44	40	30	18094
Barn Hill House -	59	17	0	
Harrow Spire -	34	31		29120
Great Stanmore Steeple	115	46		18322
Sir J. Anderson's House	29	43		
Stanmore Station -	01	27	54	5433
Hampstead Heath -	6	47	53	45070
Bushy Heath - -	71	44	13	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Kensworth - -	18	16	0	107253
Bushy Heath -	102	9	0	34388
Hadley Steeple -	59	35	0	
St. Alban's Spire -	1	49	54	52377
Bushy Heath - -	162	50	40	5443
Stanmore Station -	15	19	46	
St. Alban's Spire -	43	33	45	48465
Stanmore Station -	65	26	50	36728
Hadley Steeple -	70	59	25	
Stanmore Station -	105	59	12	87699
Kensworth - -	34	29	11	148898
Highbeech - -	39	31	37	
Stanmore Station -	42	11	22	5447
Kensworth - -	2	12	58	94512
Bushy Heath -	135	35	40	
Stanmore Station -	71	15	30	70391
Kensworth -	41	16	7	101059
Berkhampstead Gazebo	67	28	23	
Acton Steeple -	70	29	0	22542
Chiswick Steeple -	85	12	0	21288
Paddington Chapel -	24	19	0	
Acton Steeple	29	26		12167
Chiswick Steeple -	102	14		6118
Hammersmith Steeple	48	20		
Highgate Chapel -	23	21	24	24061
Argyle Street Observatory	97	54	0	9631
St. Paul's - -	58	44	36	
Highgate Chapel -	46	59		15185
St. Paul's - -	39	1	0	17636
Stoke Newington Steeple	94	0	0	
Highgate Chapel -	129	24	0	32131
St. Paul's - -	29	11	0	50919
Enfield Windmill -	21	25	0	
Enfield Windmill -	109	1		3460
Highgate Chapel -	5	37		33418
Enfield Steeple -	65	22		
Enfield Windmill -	40	38	0	8165
Highgate Chapel -	11	29	0	26511
White's Barn -	127	53	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Enfield Windmill -	11 54 0	24393	Stanmore Station -	46 0 40	16520
Highgate Chapel -	31 20 0	9673	St. Peter's Steeple -	17 35 0	39345
Hornsey Steeple -	136 46		Watford Spire -	116 24 20	
Enfield Windmill -	23 35	19716	Watford Spire -	111 26 30	17637
Hornsey Steeple -	51 17	10110	Stanmore Station -	35 34 0	25239
Tottenham Steeple -	105 8		Rickmansworth Spire	32 59 30	
Hornsey Steeple -	22 18	18004	St. Peter's Steeple	10 8 0	41229
Tottenham Steeple -	133 47	9463	Watford Spire -	99 49 0	7362
Edmonton Steeple -	23 55		Bushey Steeple -	70 3 0	
Hampstead Heath -	0 17 56	59114	St. Peter's Steeple -	32 27 0	
Highbeech -	42 5 4	460	Watford Spire -	78 16 0	22563
Highbeech new station	137 37 0		Elstree Steeple -	69 17 0	
Highbeech new station	33 5 52	53288	Watford Spire -	65 34 0	11875
Hampstead Heath -	63 27 5	32493	Bushey Steeple -	77 14 0	11085
Barnet Steeple -	83 27		Aldenham Steeple -	37 12 0	
Bushey Heath -	74 44	41722	St. Peter's Steeple -	36 26 30	25496
Hadley Steeple -	59 49 30	46559	Bushey Steeple -	36 10 0	25063
St. Alban's Spire -	45 26 28		Abbot's Langley Spire	107 23 30	
St. Alban's Spire -	1 57 34	46950	Abbot's Langley Spire	23 24 0	19165
Bushey Heath -	162 50 40	5442	Bushey Steeple -	43 19 30	11095
Stanmore Station -	15 11 46		Aldenham Steeple -	113 10 30	
Hadley Steeple -	70 10 10	38066	Bushey Steeple -	48 9 0	8237
St. Alban's Spire -	46 47 2	49135	Aldenham Steeple -	47 37 0	8307
Berkhampstead Gazebo	63 2 48		Sly Hill House -	84 14 0	
Stanmore Station -	34 43 42	70391	Hadley Steeple -	7 2 10	37576
Highbeech -	53 20 24	49988	Bushey Heath -	122 15 20	5443
Berkhampstead Gazebo	91 55 54		Stanmore Station	50 42 30	
Hadley Steeple -	67 9 0	46851	Stanmore Station	44 58 30	29088
Berkhampstead Gazebo	65 17 0	47529	Hadley Steeple -	50 24 55	20676
St. Peter's Steeple, *St. Alban's*	47 34 0		Hendon Steeple -	84 50 35	
Stanmore Station -	42 21 50	48981	Hendon Steeple -	6 3 0	16168
Berkhampstead Gazebo	43 58 50	47529	Hadley Steeple -	9 8 0	10735
St. Peter's Steeple -	93 39 20		Totteridge Spire -	164 49 0	
St. Peter's Steeple -	63 40 0	39331	Hadley Steeple -	32 48 0	7336
Hadley Steeple -	50 10 0	45903	Totteridge Spire -	41 1 0	6755
Watford Spire -	66 10 0		Poole's House -	106 11 0	
Stanmore Station -	70 20 44	17345	Hadley Steeple -	67 27 0	11080
St. Peter's Steeple -	2 31 14	66145	Totteridge Spire -	57 38 0	12115
Harrow Spire	7 8 2		Belmont House -	54 55 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
						°	′	″	
Hadley Steeple -	19	7	0	8212	Hadley Steeple	36	30	50	36688
Totteridge Spire -	41	27	0	3871	St. Peter's Steeple -	51	30	0	27895
Lee's Summer House -	120	20	0		Hatfield Steeple -	91	59	10	
Hadley Steeple -	109	18	0	3573	Hatfield Steeple -	13	17	0	24780
St. Peter's Steeple -	4	1	0	48150	St. Peter's Steeple -	62	41	30	14057
Barnet Steeple -	66	41	0		Hill End - -	87	1	30	
St. Peter's Steeple -	58	46	30	41150	Hill End - -	59	2	0	29618
Abbot's Langley Spire	83	15	0	35435	St. Peter's Steeple -	92	40	0	25424
Elstree Steeple -	37	58	30		North Mims Spire -	28	18	0	
St. Peter's Steeple -	28	21		31374	St. Peter's Steeple -	46	24	0	25492
Elstree Steeple -	47	43	0	20137	Harrow Spire -	20	49	6	51952
Ridge Steeple -	103	56			Abbot's Langley Spire	112	46	54	
St. Alban's Spire -	5	7		29625	St. Peter's Steeple -	86	7	0	25497
Berkhampstead Gazebo	7	40		19804	Barnet Steeple -	28	43	30	52938
Hatfield Steeple -	167	13	0		Abbot's Langley Spire	65	9	30	
Hatfield Steeple -	7	34	0	12785	Barnet Steeple -	64	58	55	42330
Berkhampstead Gazebo	13	17	0	7327	Abbot's Langley Spire	47	35	30	51951
Essendon Steeple -	159	9	0		Harrow Spire -	67	25	35	
St. Peter's Steeple -	21	55	0	41722	Barnet Steeple -	48	56	50	75634
Berkhampstead Gazebo	60	28	0	17898	Harrow Spire -	97	20	10	57507
North-haw Windmill	97	37	0		Cheneys Steeple	33	43	0	
St. Peter's Steeple -	56	33		42787	Barnet Steeple -	16	2	5	75653
Berkhampstead Gazebo	56	9	0	42986	Abbot's Langley Spire	133	24	55	28768
Codicote Steeple -	67	18	0		Cheneys Steeple -	30	33	0	
St. Peter's Steeple -	123	15		59667	Cheneys Steeple -	54	32	0	15972
Berkhampstead Gazebo	31	52	30	94494	Abbot's Langley Spire	33	44	0	23425
Caddington Steeple -	24	52	30		Bovington Lodge	91	44	0	
Hadley Steeple	36	45		62101	Abbot's Langley Spire	127	41	0	23453
Berkhampstead Gazebo	107	28		38953	St. Peter's Steeple -	24	59	0	43946
Neasdon Spire -	35	47			Bovington Lodge -	27	20	0	
Berkhampstead Gazebo	112	19		17902	Bovington Lodge -	15	56	0	19969
Neasdon Spire -	19	54		48656	Abbot's Langley Spire	51	33	0	7000
North-haw Windmill	47	47			Hythe Farm -	113	11	0	
St. Peter's Steeple -	10	43	30	39694	Hythe Farm -	65	17	0	6122
Caddington Steeple -	19	33	0	22025	Abbot's Langley Spire	51	24	0	7116
Flamstead Steeple -	149	43	30		King's Langley Steeple	63	19	0	
Caddington Steeple -	6	49		12595	King's Langley Steeple	116	51	0	18428
Flamstead Steeple -	8	55	30	19634	Abbot's Langley Spire	46	48	0	22554
Market Street Windmill	164	15	30		Hemel Hempstead Spire	16	21	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Bovington Lodge -	84 21	36202	Clay Hill Bush -	75 14	20918
St. Peter's Steeple -	41 44 17	54116	Henlow Steeple -	39 26	31845
Little Gaddesden Steeple	53 54 43		Baldock Telegraph	65 20	
Bovington Lodge -	23 59	26564	Clay Hill Bush	40 53 0	14090
Little Gaddesden Steeple	42 8 30	16092	Baldock Telegraph	35 27 0	12486
Gaddesden Place -	113 52 30		Wallington Barrow	103 40 0	
Lilleyhoe - -	57 21 58	16857	Clay Hill Bush	102 41 0	10277
Royston - -	11 20 19	72186	Baldock Telegraph	23 24 0	25244
Shillington Steeple -	111 17 33		Hinxworth Steeple	53 55 0	
Lilleyhoe - -	26 12 10	13801	Clay Hill Bush	12 50 0	17611
Shillington Steeple -	53 39 0	7566	Baldock Telegraph	46 17 0	5412
Higham Gobion Steeple	100 8 50		Baldock Spire -	120 53 0	
Lilleyhoe -	39 43 17	56590	St. Neot's Steeple	13 15 37	51020
Royston - -	44 51 36	51269	Lilleyhoe -	11 56 6	56590
Biggleswade Spire -	95 25		Biggleswade Spire	154 48 17	
Shillington Steeple -	45 59	7342	St. Neot's Steeple	3 31 0	113121
Royston - -	4 30	67292	Lilleyhoe -	138 38 30	10501
Meppershall Steeple -	129 31 0		Galley Hill Bush	37 50 30	
Meppershall Steeple -	135 37 0	17083	Henlow Steeple	12 24 0	17256
Royston - - -	8 38 0	80306	Baldock Telegraph	13 53 0	15443
Clophill Steeple - -	36 15 0		Stotfold Steeple	153 43 0	
Clophill Steeple - -	36 53	17022	Henlow Steeple	27 36 0	26575
Meppershall Steeple -	71 15	10789	Baldock Telegraph	56 2 0	14845
Shefford Steeple -	71 52 0		Hitchin Hill, Tree	96 22 0	
Biggleswade Spire	17 48	33069	Henlow Steeple	43 17	31716
Royston - -	27 4 0	22216	Baldock Telegraph	68 4	23442
Clay Hill Bush	135 8 0		Hitchin Windmill	68 39	
Clay Hill Bush -	70 30 0	18333	Henlow Steeple	46 44	29405
Royston - -	47 2 0	23617	Baldock Telegraph	61 22	24390
Gilden Morden Steeple	62 28 0		Ashwell Spire -	71 54	
Clay Hill Bush	13 52	20906	Henlow Steeple	15 38	31709
Royston - -	31 56	36145	Hitchin Hill, Tree	114 55	9425
Baldock Telegraph	34 12 0		Hitchin Windmill	49 27	
Clay Hill Bush -	36 46 0	18929	Henlow Steeple	37 38	40056
Royston - -	58 6 0	13346	Hitchin Hill, Tree	101 53	24994
Lillington Steeple -	85 8 0		Great Offley Steeple	40 29 0	
Biggleswade Spire -	63 23	19463	Henlow Steeple -	12 30 0	38744
Clay Hill Bush	39 33 0	29927	Hitchin Hill, Tree	143 3 0	14060
Henlow Steeple -	81 4 0		Ippolett's Steeple	24 21 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet.
Henlow Steeple	20 35 0	45830
Hitchen Hill Tree	135 23 0	22940
Warden Lodge -	24 2 0	
Hitchen Windmill	77 1 0	19451
Hitchen Hill Tree	75 4 0	19616
Stevenage Spire	27 55 0	
Henlow Steeple -	63 30 0	16466
Hitchen Windmill	31 8 0	28501
Meppersnall Steeple	85 22 0	
Henlow Steeple -	21 57	40032
Hitchin Windmill	109 48	15904
Great Offley Steeple	48 15	
Henlow Steeple -	21 51	30579
Hitchin Windmill	73 33	11866
Willien Steeple -	84 36	
Clay Hill Bush -	124 15 0	38725
Wallington Barrow	41 44 0	48087
Abingdon Steeple	14 1 0	
Hitchin Windmill -	20	34406
Stevenage Spire -	137	17348
Knebworth Steeple	22 52 0	
Knebworth Steeple	104 28	13388
Stevenage Spire -	32 4 0	24418
Datchworth Spire -	43 28 0	
Datchworth Spire -	91 17 0	36374
Knebworth Steeple	68 40	39041
Cottered Spire -	20 0	
Datchworth Spire -	63 51	16919
Knebworth Steeple	68 40 0	16304
Weston Steeple -	47 29 0	
Henlow Steeple -	6 29	8984
Biggleswade Spire	5 30	10584
Longford Steeple	168 1	
Biggleswade Spire	12 48 0	19010
Henlow Steeple -	77 37 0	4312
Clifton Steeple -	89 35 0	
Biggleswade Spire -	106 49	14348
Henlow Steeple -	30 11 0	27317
North-Hill Steeple -	43 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Biggleswade Spire -	152 50 0	15354
Henlow Steeple -	11 57 0	33856
Sandon Spire -	15 13 0	
Biggleswade Spire -	51 3 0	15864
Henlow Steeple -	52 26 0	15565
South-Hill Steeple -	76 31 0	
North-Hill Steeple -	111 14 0	15022
Biggleswade Spire -	35 17 0	24241
Blunham Steeple -	33 29 0	
Blunham Steeple -	63 55 0	16486
Biggleswade Spire	41 4 0	22539
Everton Steeple -	75 1 0	
Blunham Steeple -	17 24	9584
Biggleswade Spire -	10 45	15366
Sandon Spire - -	151 51	
Blunham Steeple -	41 46 0	22900
Biggleswade Spire -	64 51 0	16851
Warden Steeple -	73 23	
Biggleswade Spire -	75 36	16837
Sandon Spire -	55 35	19768
Warden Steeple -	48 49	
Henlow Steeple - -	65 20	38768
Clay Hill Bush - -	68 41	37818
Potton Steeple -	45 59	
Potton Steeple -	73 58	9059
Clay Hill Bush -	13 51	36373
Cockayne Hatley Steeple	92 11 0	
Shillington Steeple -	17 47 0	25231
Lilleyhoe - -	32 55 50	10525
Galley Hill Bush -	29 17 10	
Tuddenham Steeple -	13 15 52	27766
Lilleyhoe - -	37 15 26	10525
Galley Hill Bush - -	29 28 42	
Galley Hill Bush -	23 3 0	9155
Tuddenham Steeple -	10 30 0	19670
Stretley Steeple -	46 27 0	
Lidlington - -	45 51 0	30192
Lilleyhoe - -	37 43 58	35398
Tuddenham Steeple -	96 25 2	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Galley Hill Bush - -	49 5 30	28618	Kensworth - -	40 48 36	62458
Tuddenham Steeple -	67 21 0	23436	Lilleyhoe - -	89 59 30	40817
Dunstable Steeple -	63 33 30		Ampthill Steeple -	49 11 54	
Stretley Steeple -	111 53 0	25621	Bowbrickhill - -	27 21 44	22297
Tuddenham Steeple -	39 8 0	37670	Kensworth -	15 8 36	39229
Luton Steeple - -	28 59 0		Milton Bryant Steeple -	137 29 40	
Galley Hill Bush -	29 39 0	8804	Lilleyhoe - -	6 43 47	48649
Stretley Steeple -	70 57 0	4608	Bowbrickhill - -	14 48 55	22296
Barton Windmill -	79 24 0		Milton Bryant Steeple -	158 27 18	

ART. XI. *Secondary Triangles for the Survey of Part of Surrey and Part of Berkshire. Plate* 11.

The Distances used as Base Lines in the following Triangles are

Hind Head to { Norris's Obelisk - 82191 feet
Highclere Beacon - 160972,2

Hind Head - -	25 20 0	58047	Cæsar's Camp -	82 9 10	50338
Norris's Obelisk -	30 58 57	42264	Finchampstead Steeple	71 7 0	52703
Farnham Beacon -	123 41 3		Bowsey Hill - -	26 43 50	
Hind Head - -	34 6 17	50847	Cæsar's Camp -	66 49 50	88686
Highclere - -	13 29 14	122242	Finchampstead Steeple	97 39 30	82265
Farnham Beacon - -	132 24 29		Nettlebed Windmill -	15 30 40	
Farnham Beacon - -	37 44 34	48488	Cæsar's Camp -	63 53 34	51469
Norris's Obelisk -	82 28 36	29938	Bowsey Hill - -	59 4 30	53877
Finchampstead Steeple	59 46 50		Windsor Castle -	57 1 56	
Bagshot Heath -	103 23 30	9470	Cæsar's Camp -	79 13 34	51456
Norris's Obelisk - -	35 8 38	16004	Nettlebed Windmill -	32 35 30	93844
Cæsar's Camp -	41 27 5		Windsor Castle -	68 10 56	
Norris's Obelisk - -	52 42 9	29959	Cæsar's Camp -	47 51 15	70635
Cæsar's Camp - -	95 9 21	23929	Nettlebed Windmill -	51 44 57	66689
Finchampstead Steeple	32 8 30		Tower on Lord Boston's Estate at Hedsor -	80 23 48	
Hind Head - - -	43 13 17	97996			
Highclere - -	36 50 41	111915	Finchampstead Steeple	47 26 36	83458
Finchampstead Steeple	99 56 2		Nettlebed Windmill -	67 13 2	66678
			Lord Boston's Tower	65 20 22	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cæsar's Camp - -	47 37 31	19295
Finchampstead Steeple	52 32 9	17959
Wokingham Steeple -	79 50 20	
Cæsar's Camp -	40 1 20	54881
Bowsey Hill - -	76 45 4	36258
St. Lawrence Steeple in Reading - -	63 13 36	
Bowsey Hill -	59 10 24	36131
St, Lawrence Steeple -	60 14 9	35742
Wokingham Steeple -	60 35 27	
Farnham Beacon -	9 23 54	63935
Finchampstead Steeple	134 25 19	17947
Wokingham Steeple -	26 10 47	
Wokingham Steeple -	52 37 50	54978
Finchampstead Steeple	109 25 36	46332
Mortimer Windmill -	17 56 34	
Finchampton Steeple -	36 20 0	20586
Norris's Obelisk -	42 24 20	18086
Barrow on Hartford Bridge Flats - -	101 15 40	
Finchampstead Steeple	23 26 50	20559
Farnham Beacon -	15 26 10	30735
Barrow - - -	141 7 0	
Finchampstead Steeple -	33 39 39	45643
Farnham Beacon -	67 27 46	26391
Odiham Steeple -	78 52 35	
Finchampstead Steeple	55 41 0	39103
Farnham Beacon -	50 41 30	41742
Tilney Hall - -	73 37 30	
Finchampstead Steeple -	29 1 57	27301
Farnham Beacon -	28 17 35	27956
Hartley Wintney Steeple	122 40 28	
Farnham Beacon -	43 43 45	27982
Barrow on Hartford Bridge Flats - -	61 28 8	22015
Hartley Wintney Steeple	74 48 7	
Finchampstead Steeple	52 28 24	27309
Barrow, Hartford Bridge Flats - -	79 39 42	22016
Hartley Wintney Steeple	47 51 54	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Finchampstead Steeple	29 37 2	53765
Norris's Obelisk -	122 17 31	31431
Station near Ash -	28 5 27	
Norris's Obelisk -	79 52 41	31447
Barrow on Hartford Bridge Flats - -	67 55 6	33407
Station near Ash -	32 12 13	
Finchampstead Steeple -	11 18 54	76261
Nettlebed Windmill	63 25 8	16731
Fawley Steeple -	105 15 58	
Wokingham Steeple	12 26 12	62159
Nettlebed Windmill -	53 3 8	16750
Fawley Steeple -	114 30 40	
Finchampstead Steeple	105 4 47	46584
Cæsar's Camp -	51 17 24	57643
Caversham Park -	23 37 49	
Finchampstead Steeple -	52 32 40	46540
Wokingham Steeple -	105 39 0	38367
Caversham Park -	21 48 20	
Cæsar's Camp -	10 4 26	41451
Bowsey Hill - -	37 14 36	11978
Ruscombe Steeple -	132 40 58	
Finchampstead Steeple	9 25 0	48208
Bowsey Hill -	56 48 19	9424
Wargrave Steeple -	113 46 41	
Wokingham Steeple -	14 53 59	33418
Bowsey Hill - -	65 56 35	9408
Wargrave Steeple -	99 9 26	
Cæsar's Camp -	92 31 19	38748
Finchampstead Steeple	56 29 14	46428
Shottesbrook Spire -	30 59 27	
Finchampstead Steeple -	131 46 55	25170
Cæsar's Camp -	24 45 26	44819
Shinfield Steeple -	23 27 39	
Finchampstead Steepl	85 40 40	62508
Cæsar's Camp -	72 51 55	65225
Henley Steeple -	21 27 29	
Cæsar's Camp -	25 14 50	65207
Wokingham Steeple -	144 58 30	48460
Henley Steeple -	9 46 40	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Bowsey Hill -	18	0	0	27987
Nettlebed Windmill -	28	42	44	17944
Rotherfield Greys Steeple	133	17	16	
Finchampstead Steeple -	48	28	10	82000
Nettlebed Windmill -	65	33	35	67427
Hedsor House -	65	58	15	
Cæsar's Camp -	25	16	0	33368
Bowsey Hill - -	35	14	12	24686
Windmill on White Waltham Common -	119	29	48	
Finchampstead Steeple	22	50	0	30073
Wokingham Steeple -	129	55	0	15215
Hurst Steeple -	27	15	0	
Cæsar's Camp -	116	59	54	22643
Finchampstead Steeple	30	31	52	39714
Warfield Steeple -	32	28	14	
Cæsar's Camp -	106	24	34	22657
Bagshot Heath -	53	51	46	26912
Warfield Steeple -	19	43	40	
Finchampstead Steeple -	30	48	0	12495
Norris's Obelisk -	18	25	0	20252
Yately Steeple -	130	47	[illegible]	
Farnham Beacon -	21	3	20	42806
Odiham Steeple -	129	13	0	19845
Rotherwick Steeple -	29	43	40	
Barrow on Hartford Bridge Flats -	14	23	50	34963
Farnham Beacon -	109	48	0	9238
Crondall Steeple -	55	48	10	
Barrow on Hartford Bridge Flats - -	16	32	22	46566
Station near Ash -	30	54	18	14469
The 34 mile stone on the Farnham Road -	122	33	20	
Barrow on Hartford Bridge Flats - -	4	39	46	34316
Station near Ash -	105	55	3	2901
Ash Steeple - -	69	25	11	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Finchampstead Steeple	45	22	20	34137
Farnham Beacon -	44	43	28	34509
Frimley Chapel -	89	54	12	
Tilney Hall - -	34	32	0	27506
Rooks Down - -	55	21	0	18954
Hackwood House -	90	7	0	
Tilney Hall - -	42	0	0	11738
Rooks Down -	17	39	0	25926
Basingstoke Town House	120	21	0	
Tilney Hall - -	61	46	40	15963
Rooks Down - -	28	31	0	29461
Farm near Five Lanes End	89	42	20	
Rooks Down - -	24	53	30	19288
Basingstoke Town House	125	18	0	9917
Basing Steeple -	29	48	30	
Rooks Down - -	46	52	0	20489
Tilney Hall - -	37	35	0	24515
Bramley Steeple -	95	33	0	
Finchampstead Steeple	135	28	20	68785
Farnham Beacon -	26	19	0	108803
Dr. Breedon's Tower -	18	12	40	
Finchampstead Steeple	61	30	24	68757
Bowsey Hill - -	71	46	16	63621
Dr. Breedon's Tower	46	43	20	
Hind Head - -	20	41	50	147372
Highclere - -	66	4	20	56983
Beenham Steeple -	93	13	50	
Highclere - -	9	56	38	80169
Dr. Breedon's Tower -	86	50	22	13855
Nunhide Pigeon House	83	13	0	
Farnham Beacon -	37	0	50	49075
Odiham Steeple - -	111	45	30	31806
Highfield Park -	34	13	40	

ART. XII. *Secondary Triangles for the Survey of Part of South Wales. Plate* XII.

The Distances serving as Base Lines for the following Triangles, will be found by referring to the 158th and three succeeding pages of the present volume.

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	53 1 30	49938
Brenin Fawr - -	79 0 30	40641
Barrow near Pantsyon -	47 58 0	
Precelly Top - -	37 2 30	64712
Brenin Fawr - -	109 35 0	41376
Warren Bank, highest point - -	33 22 30	
Precelly Top - -	45 8 0	67142
Brenin Fawr - -	101 23 0	48542
Ferwig Steeple -	33 29 0	
Precelly Top - -	56 55 15	58266
Brenin Fawr - -	83 0 45	49187
Rock near Trecoon Farm	40 4 0	
Brenin Fawr -	30 35 0	41375
Barrow near Pantsyon -	76 35 0	21642
Warren Bank - -	72 50 0	
Brenin Fawr - -	22 23 0	48566
Barrow near Pantsyon -	102 59 30	18980
Ferwig Steeple -	54 37 30	
Brenin Fawr -	14 53 0	56401
Barrow near Pantsyon -	133 45 0	20055
Cardigan Island, highest Point - -	31 22 0	
Brenin Fawr - -	36 52 30	15067
Barrow near Pantsyon -	17 33 0	29984
Llanfihangel Penbedw Steeple - -	125 34 30	
Brenin Fawr - -	71 38 0	45933
Barrow near Pantsyon -	59 1 30	50844
Foelary Barrow -	49 20 30	
Brenin Fawr - -	50 37 0	46717
Barrow near Pantsyon	73 3 30	37746
Carnyngly Rock -	56 19 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Brenin Fawr - -	76 10 30	15469
Barrow near Pantsyon -	22 7 0	39898
Foel Dregarn - -	81 32 30	
Precelly Top - -	51 1 30	22289
Barrow near Pantsyon -	25 49 30	39881
Foel Dregarn - -	103 9 0	
Precelly Top -	70 30 45	58302
Nipple Rock -	75 5 15	56878
Rock near Trecoon Farm	34 24 0	
Brenin Fawr -	10 54 0	56352
Rock near Trecoon Farm	119 59 0	12302
Cardigan Island -	49 7 0	
Rock near Trecoon Farm	22 46 0	22125
Cardigan Island -	133 24 30	11786
Hill near Mount Church	23 49 30	
Warren Bank - -	76 24 0	26426
Barrow near Pantsyon -	59 0 30	29962
Llanfihangel Penbedw -	44 35 30	
Brenin Fawr - -	11 54 30	37231
Warren Bank - -	57 13 30	9137
Cardigan Steeple -	110 52 0	
Brenin Fawr - -	20 27 0	27018
Rock near Trecoon Farm	21 34 30	25672
Cilgerran Castle - -	137 58 30	
Warren Bank - -	85 40 0	14714
Rock near Trecoon Farm	34 55 0	25632
Cilgerran Castle -	59 25 0	
Warren Bank -	24 12 0	22181
Barrow near Pantsyon -	81 11 0	9201
Rock near Trecoon Farm	74 37 0	
Precelly Top - -	54 59 30	22328
Rock near Trecoon Farm	21 55 0	48997
Foel Dregarn -	103 5 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Precelly Top - -	21 3 0	25330
Foel Dregarn - -	98 12 0	9192
Crigidwy - -	60 45 0	
Brenin Fawr - -	33 44 0	16125
Foel Dregarn -	77 3 0	9188
Crigidwy - -	69 13 0	
Brenin Fawr - -	75 38 0	45911
Rock near Trecoon Farm	49 38 30	58366
Foelary Barrow -	54 43 30	
Precelly Top - -	85 57 0	9752
Rock near Trecoon Farm	9 35 0	58429
Foelary Barrow -	84 28 0	
Precelly Top - -	127 27 11	34055
Brenin Fawr -	24 48 19	64440
Nipple Rock - -	27 44 30	
Nipple Rock - -	63 53 32	37148
Plumstone Down -	40 9 31	51725
Pencarn, highest point	75 56 57	
Nipple Rock - -	77 27 0	13972
Pencarn - - -	21 47 30	36737
Dinas Head, highest point	80 45 30	
Nipple Rock - -	98 20 0	13970
Brenin Fawr -	11 44 45	67887
Dinas Head - -	69 55 15	
Nipple Rock - -	40 42 0	20857
Dinas Head - -	97 42 45	13725
Sunken Rock near Pendroway Head	41 35 15	
Nipple Rock - -	85 28 0	15974
Dinas Head - -	51 24 30	20374
Eastmost Chimney of Mr Mathias's House at Fishguard - -	43 7 30	
Nipple Rock - -	89 9 45	18055
Dinas Head -	52 47 30	22667
Carnyngly Rock -	38 2 45	
Dinas Head - -	18 7 30	28309
Carnyngly Rock -	115 41 41	9773
Mr. Jones's Summer House	46 10 49	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distance in Feet.
Precelly Top - -	58 39 30	51418
Nipple Rock - -	80 30 30	44525
Trefgarn Rock -	40 50 0	
Precelly Top - -	23 6 15	51449
St. Thomas Steeple -	42 40 0	29788
Trefgarn Rock -	114 13 45	
Precelly Top -	57 5 45	132928
Highgate Mountain -	71 2 10	118011
Ramsey Island, highest point - -	51 52 5	
Precelly Top - -	62 59 0	117223
Highgate Mountain -	61 14 30	119124
Llaeithty Rock -	55 46 30	
Plumstone Down -	69 51 39	57701
Pencarn - - -	59 30 36	62867
Llaeithty Rock -	50 37 45	
St. Ann's Hill - -	6 56 48	83404
Llaeithty Rock -	95 46 1	10139
Penberry Rock -	77 17 11	
Llaeithty Rock -	85 7 30	9530
Penberry Rock - -	45 30 30	13311
St. David's Cathedral -	49 22 0	
Pencarn - -	8 24 0	64670
Llaeithty Rock -	96 42 0	9512
St. David's Cathedral -	74 54 0	
Pencarn - -	17 19 0	81862
St. David's Cathedral -	118 57 15	27847
Highest point of the Northmost of the Bishop and his Clerks -	43 43 45	
Penberry Rock -	61 39 15	31530
St. David's Cathedral -	93 25 15	27799
Bishop and his Clerks -	24 55 30	
Plumstone Down -	46 21 54	36546
Pencarn - - -	44 53 47	37474
Old Windmill -	88 44 19	
Precelly Top - -	46 32 0	21994
Nipple Rock -	40 6 0	24782
Castle Baith Mountain, Barrow - -	93 22 0	

Names of Stations and intersected Objects	Angles for Calculation. °	′	″	Distances in Feet.
Trefgarn Rock -	32	3	0	30281
Nipple Rock -	40	26	0	24776
Castle Baith Mountain	107	31	0	
Precelly Top -	21	28	30	27866
Castle Baith Mountain -	111	6	10	10935
A Flat Barrow -	47	25	20	
Precelly Top - -	25	5	20	27846
Nipple Rock - -	53	5	30	14767
Flat Barrow - -	101	49	10	
Flat Barrow - -	109	48	40	31286
Castle Baith Mountain	53	48	20	36473
Priscilly Forest House -	16	23	0	
Precelly Top - -	11	58	0	82635
Lacithty Rock -	25	12	20	40233
Garn Rock - -	142	49	40	
Precelly Top - -	26	36	12	54358
Nipple Rock - -	137	4	45	82647
Garn Rock - -	16	18	43	
Plumstone Down -	66	40	15	51391
St. Thomas Steeple -	78	53	45	48090
Moat Steeple - -	34	26	0	
Plumstone Down -	85	31	1	10786
St. Thomas Steeple -	20	29	47	30714
Roch Castle - -	73	59	22	
Roch Castle - -	33	53	10	26276
St. Thomas Steeple -	58	46	30	17132
Rudbaxton Steeple -	88	20	20	
Plumstone Down	33	11	47	19337
St. Thomas Steeple -	38	14	41	17104
Rudbaxton Steeple -	108	33	52	
Plumstone Down -	51	47	21	10785
Lacithty Rock -	9	25	43	51729
Roch Castle - -	118	46	56	
Lacithty Rock -	16	59	0	25998
Roch Castle - -	15	47	0	27918
Scrabs Island, highest point - -	147	14	0	
Lacithty Rock -	26	24	43	26005
Plumstone Down -	18	35	0	36299
Scrabs Island -	135	0	17	

Names of Stations and intersected objects.	Angles for Calculation °	′	″	Distances in Feet.
Lacithty Rock - -	40	11	40	62311
Plumstone Down -	75	53	45	41465
Talbenny Church -	63	54	35	
Roch Castle - -	93	18	19	31922
Lacithty Rock -	30	44	56	62333
Talbenny Church -	55	56	45	
Precelly Top - -	28	47	5	86337
Plumstone Down -	102	6	12	42518
Johnston Steeple	49	6	43	
Plumstone Down -	19	57	50	29613
Johnston Steeple -	34	32	55	17828
St. Thomas Steeple -	125	29	15	
St. Thomas Steeple -	18	8	45	17834
Johnston Steeple -	81	5	45	5625
Boulton Beacon -	80	45	30	
Roch Castle - -	30	58	0	34679
St Thomas Steeple -	86	51	45	17871
Boulton Beacon -	62	10	15	
St. Ann's Hill -	112	5	30	16571
Milford Steeple -	21	44	0	41467
Green Mire Hill -	46	10	30	
St. Ann's Hill - -	106	51	45	16534
Hubberstone Steeple -	26	33	5	35398
Green Mire Hill -	46	35	10	
St. Ann's Hill -	124	13	10	4318
Green Mire Hill -	10	39	14	19314
St. Ann's Lighthouse -	45	7	36	
St. Ann's Hill -	31	49	30	30852
Green Mire Hill -	120	42	10	18921
High rock, near south extremity of Scomer Island	27	28	20	
Green Mrie Hill -	109	52	50	18860
St. Ann's Lighthouse -	34	34	54	31248
Scomer Island -	35	32	16	
Plumstone Down -	45	6	48	78249
St. Ann's Hill - -	75	25	24	57285
St. Daniel's Spire -	59	27	48	
Newton Down -	56	14	34	20428
Plumstone Down -	20	51	15	47709
Lord Milford's Summer House - -	102	54	11	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Precelly Top - -	60 41 52	12883
Castle Baith Mountain -	35 36 20	19296
Maenclochog Steeple -	83 41 48	
St. Ann's Hill -	35 19 22	26868
Sir H. Owen's Summer House - -	28 49 11	32226
Hubberstone Steeple -	115 51 27	
St. Ann's Hill - -	26 40 38	34631
Sir H. Owen's Summer House - -	38 59 1	24715
Mr. Roch's Summer House	114 20 21	
St. Ann's Hill -	93 44 2	4318
Sir H. Owen's Summer House - -	4 52 58	50621
St. Ann's Lighthouse -	81 23 0	
St. Ann's Hill - -	5 27 10	53272
Sir H. Owen's S. House	119 35 36	5822
Highgate Mountain -	54 57 14	
St. Ann's Hill - -	8 7 18	45255
Sir H. Owen's S. House	50 3 6	8321
Warren Spire - -	121 49 36	
St. Ann's Hill -	1 46 34	56553
Sir H. Owen's S. House	164 36 45	6606
St. Petrox Steeple -	13 36 41	
Sir H Owen's S. House	97 38 22	14418
St. Petrox Steeple -	59 11 18	16638
Flimston Chapel -	23 10 20	
Sir H. Owen's S. House	62 3 0	14376
St. Ann's Lighthouse -	16 8 20	45684
Flimston Chapel -	101 48 40	
Sir H. Owen's S. House	77 5 50	13391
Warren Spire - -	67 47 10	14099
Bosheston Steeple -	35 7 0	
Sir H. Owen's S. House	60 16 0	13381
Flimston Chapel -	56 16 0	13973
Bosheston Steeple -	63 28 0	
Bosheston Steeple -	103 48 10	6786
Flimston Chapel -	22 54 40	17322
Lord Cawdor's Summer House - -	53 17 10	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Flimston Chapel -	45 1 40	16783
Sir H. Owen's S. House	77 56 50	12141
Lord Cawdor's Summer House with cupola -	57 1 30	
Sir H. Owen's S. House	17 38 40	12162
Bosheston Steeple -	64 1 20	4101
Summer House with cupola - -	98 20 0	
Hubberstone Steeple -	72 52 32	16082
Green Mire Hill -	26 37 20	34299
Old Windmill near Angle	80 30 8	
Sir H. Owen's S. House	29 30 30	30572
Hubberstone Steeple -	69 32 0	16073
Old Windmill - -	80 57 30	
Newton Down -	37 52 1	44097
Marros Beacon -	36 38 46	45349
Whitewell Old Windmill	105 29 13	
Newton Down -	64 55 39	44084
Highgate Mountain -	77 37 47	40879
Whitewell Old Windmill	37 26 34	
Highgate Mountain -	15 47 19	40931
Whitewell Old Windmill	82 22 1	11237
St. Florence Old Windmill	81 50 40	
Highgate Mountain -	23 7 39	34590
St. Florence Old Windmill	56 7 30	16364
Middle Hill Old Windmill	100 44 51	
St. Florence Old Windmill	25 42 0	16358
Whitewell Old Windmill	116 17 0	7912
Middle Hill Old Windmill	38 1 0	
Newton Down - -	14 11 18	50604
Whitewell Old Windmill	111 50 17	13363
Old Windmill, Fire Beacon on its top - -	53 58 25	
St. Florence Old Windmill	63 59 20	13676
Whitewell Old Windmill	66 54 50	13361
Old Windmill -	49 5 50	
St. Florence Old Windmill	23 55 52	6943
Whitewell Old Windmill	29 56 10	5643
St. Florence Steeple -	126 7 48	

Names of Stations and intersected Objects.	Angles for Calculation	Distance in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	
St. Florence Old Windmi	98 45 1	6929	Precelly Top -	57 45 4	59194
Newton Down - -	10 12 1	38661	Plumstone Down -	54 54 47	61181
St. Florence Steeple -	71 2 3		Newton Steeple -	67 20 9	
St. Florence Old Windmil	107 11	10992	Precelly Top -	5 23 35	50690
Old Windmill Fire Beaco	31 49 1	19917	Newton Steeple -	28 37 40	9944
Jeffreston Steeple -	40 59 4		Robeston Wathen Steeple	145 58 45	
St. Florence Old Windmil	66 8 34	10989	Precelly Top - -	61 13 0	50634
Newton Down -	17 9 28	34066	Trefgarn Rock -	58 38 0	51974
Jeffreston Steeple -	96 41 58		Robeston Wathen Steeple	60 9 0	
Jeffreston Steeple -	79 31	24431	Robeston Wathen Steeple	108 25 50	6651
Old Windmill, Fire Beacon	57 13	28574	Newton Steeple -	27 38 40	13599
Carew Beacon -	43 16		Old Castle - -	43 55 30	
Jeffreston Steeple -	38 32	24447	Precelly Top - -	5 5	45585
St. Florence Old Windmil	18 6 0	17265	Robeston Wathen Steeple	37 32 55	6630
Carew Beacon -	23 22 0		Old Castle - -	137 21 58	
Jeffreston Steeple -	62 59 15	6685	Robeston Wathen Steeple	71 54	21622
St. Florence Old Windmill	6 25 10	17454	Newton Steeple -	81 4 40	20803
Loveston Steeple -	10 35 35		Wiston Steeple -	27 1 20	
Highgate Mountain -	21 13 33	47342	Robeston Wathen Steeple	35 20 10	13802
St. Florence Old Windmill	00 33 50	17436	Newton Steeple -	99 21 30	8091
Loveston Steeple -	58 12 37		Old House - -	45 18 20	
St. Florence Old Windmill	39 34 20	30689	Precelly Top - -	13 4 37	62125
Highgate Mountain -	17 11 56	67303	Robeston Wathen Steeple	125 1 30	17165
Ludchurch Steeple -	23 13 44		Minwear Steeple -	41 53 53	
Highgate Mountain -	44 38 32	67334	Precelly Top - -	8 13 30	62131
Newton Down -	13 23 41	51552	Newton Down -	21 55 12	23810
Ludchurch Steeple -	21 57 47		Minwear Steeple -	149 51 18	
Highgate Mountain	13 27 48	67317	Precelly Top - -	43 40	15974
Marros Beacon -	43 51 37	22619	Maenclochog Steeple	83 4 0	11111
Ludchurch Steeple -	22 40 45		Llangolman Church -	53 16	
St. Florence Old Windmill	33 56 10	16632	Precelly Top -	80 11 40	31754
Jeffreston Steeple -	06 49 55	9700	Roch Castle -	23 30 58	78419
Begeley Steeple -	39 14 35		Llandissilio Church -	76 17 22	
St. Florence Old Windmill	140 55 10	16639	Precelly Top - -	92 10 15	31738
Highgate Mountain -	11 1 22	54863	Castle Baith Mountain -	53 49 8	39293
Begeley Steeple -	28 3 28		Llandissilio Church -	34 0 37	
Precelly Top -	53 18 0	116617	New Inn Hill -	53 24 5	92602
Lanion - -	46 45 50	128338	Capel Kynon -	83 13 53	73249
Wool House, Caldy Island	79 56 8		Brenin Fawr - -	43 22 2	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	14 9 30	37785
Capel Kynon - -	7 14 55	73256
Brenin Fawr - -	158 35 35	
Talsarn - -	40 7 7	138225
New Inn Hill -	100 32 45	90599
Brenin Fawr - -	39 20 8	
Brenin Fawr - -	110 27 0	40616
Rock near Trecoon Farm	30 59 0	73926
Moelfre Barrow -	38 34 0	
Capel Kynon - -	40 7 53	26729
Brenin Fawr - -	18 3 57	55555
Pile on a Stone Quarry near Bettws Einon	121 4[illegible] 10	
Brenin Fawr -	52 53 42	40605
Quarry Pile - -	46 11 48	44872
Moelfre Barrow - -	80 54 30	
Brenin Fawr -	34 52 8	40571
Capel Kynon -	30 7 52	46205
Moelfre Barrow - -	115 0 0	
Capel Kynon -	105 53 56	23476
Brenin Fawr - -	15 49 12	82820
Pile on Llandissilio Head	58 16 52	
Capel Kynon - -	65 45 36	23519
Quarry Pile - -	51 28 30	27411
Llandissilio Head - -	62 45 54	
Quarry Pile - -	75 37 40	26735
Moelfre Barrow -	34 6 40	46180
Capel Kynon -	70 15 40	
Moelfre Barrow -	31 17 33	38865
Capel Kynon - -	57 15 0	24002
Bettws Einon - -	91 37 27	
Capel Kynon - -	13 0 15	24008
Quarry Pile - -	58 16 33	6351
Bettws Einon - -	108 43 12	
Capel Kynon - -	64 20 0	12825
Quarry Pile - -	28 37 30	24127
Pile on the Moor right of the road to Capel Kynon	87 2 30	
Capel Kynon - -	51 28 0	12818
Bettws Einon - -	32 2 0	18869
Pile on the Moor -	96 38 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Quarry Pile - -	93 36 15	9692
Moelfre Barrow -	11 58 48	46600
Blaenporth Church -	74 24 57	
Quarry Pile - -	140 35 45	9674
Pile on the Moor -	10 59 48	32193
Blaenporth Church -	28 24 27	
Quarry Pile - -	47 0 10	24126
Moelfre Barrow -	31 50 17	33450
Pile on the Moor -	101 9 33	
Capel Kynon - -	26 59 16	52158
Moelfre Barrow - -	90 40 45	23671
Middle of Three Barrows on Newcastle Mountain	62 19 30	
Pile on the Moor -	34 15 50	41963
Moelfre Barrow -	92 57 58	23652
Middle Barrow -	52 46 12	
Pile on the Moor - -	19 27 25	31378
Moelfre Barrow -	69 42 17	11144
Penboir Church -	90 50 18	
Capel Kynon - -	13 49 7	43156
Moelfre Barrow -	67 25 40	11163
Penboir Church -	98 45 13	
Moelfre Barrow -	81 51 0	6820
Middle Barrow -	16 34 0	23677
Crug-moch - -	81 35 0	
Moelfre Barrow -	72 28 0	6811
Brenin Fawr - -	9 34 0	39088
Crug-moch - -	97 58 0	
Crug-moch - -	75 50 10	9818
Brenin Fawr - -	14 32 50	37901
Crug-wan - -	89 37 0	
Middle Barrow -	19 59 30	27834
Crug-moch - -	104 36 30	9834
Crug-wan - -	55 24 0	
Crug-moch - -	21 9 27	35632
Brenin Fawr - -	65 30 48	14132
Kilwendague House, centre Pediment - -	93 19 45	
Brenin Fawr - -	5[illegible] 48	14132
Moelfre Barrow - -	19 42 37	34711
Kilwendague - -	104 20 35	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Brenin Fawr - -	47	10	37	17669
Crug-moch - -	25	34	32	30020
Chimney in the centre of Finone House -	107	14	51	
Brenin Fawr -	44	39	27	7527
Finone - -	23	14	48	13403
Brenin Fach - -	112	5	45	
Brenin Fawr - -	128	30	6	7519
Craig y dwy -	15	47	35	21622
Brenin Fach - -	35	42	19	
Brenin Fawr - -	18	10	13	56392
Quarry Pile - -	83	35	30	17696
Alderbrook Hall, centre Pediment -	78	14	17	
Brenin Fawr -	41	46	22	7530
Alderbrook Hall -	5	38	31	51021
Brenin Fach - -	132	35	7	
Brenin Fawr - -	51	31	30	33635
Crug-moch - -	55	24	22	31988
Llanwinio Church -	73	4	8	
Brenin Fawr - -	36	59	7	33617
Crug-wan - -	61	21	15	23045
Llanwinio Church -	81	39	38	
Brenin Fawr - -	74	30	0	16113
Llanwinio Church -	27	54	23	33174
Craig y dwy - -	77	37	37	
Crug-moch - -	44	39	50	13674
Crug-wan - -	89	24	0	9613
Post Gwyn Direction-post	45	56	10	
Capel Kynon - -	65	18	30	26991
Middle Barrow -	30	57	30	47674
Pen Voel Hadog -	83	44	0	
Capel Kynon - -	98	13	17	12883
Pen Voel Hadog -	23	45	45	31496
Pile on the Moor -	58	0	58	
Capel Kynon -	31	4	0	27514
Middle Barrow -	26	29	21	31827
Intrenchment on Pen Coed Voel -	122	25	23	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Capel Kynon -	34	14	0	27561
Pen Voel Hadog -	74	49	0	16054
Pen Coed Voel -	70	57	0	
New Inn Hill -	47	4	22	89253
Capel Kynon -	88	22	0	65381
Talsarn Barrow -	44	33	38	
New Inn Hill - -	76	28	48	27044
Capel Kynon -	25	1	27	62163
Crug-edrid - -	78	29	45	
Capel Kynon - -	63	22	30	62198
Talsarn Barrow -	55	59	53	67070
Crug-edrid - -	60	37	37	
New Inn Hill - -	65	32	40	14003
Capel Kynon - -	12	38	13	58265
Crug-gair - -	101	49	7	
Capel Kynon - -	12	21	31	58266
Crug-edrid - -	67	7	22	13535
Crug-gair - -	100	31	7	
Capel Kynon - -	46	22	45	74139
Talsarn Barrow -	75	9	0	55525
Shepherd's Pen - -	58	28	30	
Talsarn Barrow - -	13	21	38	56028
Crug-edrid - -	45	52	19	18037
Largest Carn on the summit of Rhyd y bont Mountain - -	120	46	3	
Talsarn Barrow -	5	47	29	56014
Shepherd's Pen -	92	3	32	5656
Rhyd y bont Mountain	82	9	0	
Capel Kynon - -	39	59	30	44449
Shepherd's Pen -	35	28	30	49227
Pen y Voel Dyhewydd	104	32	0	
Talsarn Barrow -	62	6	46	21777
Shepherd's Pen -	23	0	7	49257
Pen y Voel Dyhewydd	94	53	7	
Pen y Voel Dyhewydd	111	46	0	39474
Talsarn Barrow -	45	11	32	51672
Centre Pediment of a House - -	23	2	28	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
	°	′	″	
Talsarn Barrow - -	42	47	14	18285
House, Centre Pediment	17	59	1	40221
Moelfre Hill - -	119	13	45	
Pen y Voel Dyherwydd	99	20	45	3629
House, Centre Pediment	5	6	23	40220
Moelfre Hill -	75	33	52	
Pen y Voel Dyherwydd	81	49	0	5048
Moelfre Hill -	59	46	3	5783
Dyhewydd Belfry - -	38	24	30	
Rhyd y bont Mountain	57	55	52	27944
Crug edrid -	82	18	0	23894
Llanwenog Church -	39	46	0	
Rhyd y bont Mountain	144	59	52	5668
Llanwenog Church -	5	41	53	32750
Shepherd's Pen -	29	18	15	
Rhyd y bont Mountain	31	32	4	34216
Crug-edrid - -	121	52	11	21072
Llanlwny Church Tower	26	35	45	
Rhyd y bont Mountain	22	28	26	9739
Shepherd's Pen -	131	48	48	4995
Chimney of Cottage on a Hill - - -	25	42	46	
Crug-edrid - -	102	41	52	23892
New Inn Hill - -	35	49	8	39829
Llanwenog Church Tower	41	29	0	
Crug-edrid - -	39	33	41	21069
Llanwenog Church Tower	60	18	58	15440
Llanlwny Church Tower	80	7	21	
Llanwenog Church Tower	108	54	58	13619
Llanlwny Church Tower	32	58	[illegible]	2[illegible]074
Pencarreg Belfry -	38	6	48	
Llanwenog Church Tower	46	23	0	8169
Llanlwny Church Tower	31	5	21	11450
Highmead House, eastmost Chimney -	102	31	53	
Lannon - -	57	30	45	62622
New Inn Hill - -	46	8	11	73263
Barrow on Llangynog Mountain - - -	76	21	3	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Lannon - -	42	19	27	62600
Wool House -	27	11	37	92233
Llangynog Mountain	110	28	56	
Llannon - -	81	24	52	62588
Worms Head - -	41	31	8	93362
Llangynog Mountain -	57	4	0	
New Inn Hill - -	48	30	47	73271
Precelly Top -	35	10	13	95490
Llangynog Mountain	96	19	0	
Llangynog Mountain	42	56	41	42777
Precelly Top - -	24	29	28	70302
Station in a hedge near the five mile stone from St. Clare - -	112	33	51	
Marros Beacon - -	148	5	15	17805
Tenby Spire -	10	54	41	49722
Station in Hedge -	21	0	4	
Precelly Top - -	8	34	0	70302
Marros Beacon -	35	56	30	17841
Station in a Hedge -	135	29	30	
Precelly Top -	8	27	15	10630
Station in Hedge -	68	2	0	67054
West Chimney of Tavernspite Inn - -	103	30	45	
Marros Beacon -	35	30	22	16918
Station in Hedge -	67	28	0	10638
Tavernspite Inn -	77	1	38	
Llangynog Mountain -	22	7	33	15257
Station in Hedge -	11	27	33	28925
Llanfihangel Abercowyn Church - -	146	24	54	
Llangynog Mountain -	99	16	45	30924
New Inn Hill - -	21	18	18	84000
Barrow on Llansaint Hill	59	24	57	
Llangynog Mountain -	22	55	52	30887
Lannon Station -	19	24	46	36208
Barrow on Llansaint Hill	137	39	22	
Llangynog Mountain -	87	33	15	30910
Wool House, Caldy Isle	18	45	42	96016
Barrow on Llansaint Hill	73	41	3	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Llangynog Mountain	33 11 30	19137
Llansaint Hill - -	35 8 33	18201
Llanstephan Castle, high square Turret -	111 39 57	
Llansaint Hill -	51 43 0	22745
Lannon Station -	38 54 53	28423
Penbree Hill - -	89 22 7	
Llangynog Mountain -	26 53 19	53465
Lannon Station -	58 20 26	28407
Penbree Hill - -	94 46 15	
Lannon Station -	27 15 20	28384
Kidwelly Spire -	52 7 3	16470
Penbree Hill - -	100 37 37	
Lannon Station -	78 36 41	37436
Llangynog Mountain -	33 37 0	66288
Nelson's Tower -	67 46 19	
Lannon Station -	98 2 45	37432
Llansaint Hill -	41 48 15	55600
Nelson's Tower -	40 9 0	
Llangynog Mountain -	60 30 18	66316
Penbree Hill - -	70 9 52	61375
Nelson's Tower -	49 19 50	
Marros Beacon -	127 47 30	17825
Worms Head - -	8 1 23	100925
Station in Hedge -	44 11 7	
Worms Head - -	14 29 51	82371
Station in Hedge -	44 14 9	29559
Laugharne Church Tower	121 16 0	
Llansaint Hill -	99 33 7	7471
Penbree Hill - -	17 6 30	25044
Llansaint Steeple -	63 20 23	
Llangynog Mountain -	13 56 57	29339
Llansaint Hill -	71 4 45	7479
Llansaint Steeple -	94 58 18	
Lannon Station -	45 8 7	20321
Nelson's Tower -	31 56 42	27222
Mancha Hill - -	102 55 11	
Lannon Station -	52 53 41	20317
Llansaint Hill - -	34 4 49	28917
Mancha Hill - -	93 1 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Llansaint Hill - -	103 34 33	28897
Llangynog Mountain -	36 42 12	47000
Mancha Hill - -	39 43 15	
New Inn Hill -	15 21 53	48475
Llangynog Mountain	25 49 37	39482
Barrow on the high land between Abernant and Cyn Wyl Elvet -	138 48 30	
Llangynog Mountain	88 24 10	29435
Mancha Hill - -	32 30 13	54756
Barrow between Abernant and Cyn Wyl Elvet -	59 5 37	
New Inn Hill - -	29 22 13	39461
Barrow near Cyn Wyl	53 57 7	23937
Barrow at the entrance of the Moor, and close to the Road from Caermarthen to Newcastle in Emlyn - -	96 40 40	
New Inn Hill -	44 44 6	39464
Llangynog Mountain -	31 32 47	53089
Moor-Barrow -	103 43 7	
Llansaint Hill -	15 26 18	23357
Mancha Hill - -	44 12 0	8918
Llangendeirne Church -	120 21 42	
Llangendeirne Church	44 13 48	17675
Mancha Hill - -	106 54 26	12887
Llandarrog Church -	28 51 46	
Llansaint Hill -	8 47 55	40650
Mancha Hill - -	151 6 7	12867
Llandarrog Church -	20 5 58	
Crug-edrid - -	26 34 33	38706
New Inn Hill - -	111 35 47	18142
Brechva Mountain, highest Point - -	41 49 40	
New Inn Hill - -	78 56 26	18137
Barrow near Cyn Wyl	21 35 37	48368
Brechva Mountain -	79 27 57	
Mancha Hill - -	54 33 39	50395
Barrow near Cyn Wyl	58 7 21	48351
Brechva Mountain -	67 19 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Mancha Hill - -	37 15 7	27230
Brechva Mountain -	29 51 8	33114
Nelson's Tower -	112 53 45	
Crug-edrid - -	84 16 41	32976
Brechva Mountain -	43 37 57	47551
Dinas Rock, highest Point	52 5 22	
Brechva Mountain -	45 44 34	67092
Dinas Rock - -	89 7 49	48058
Trechrig Mountain -	45 7 37	
Dinas Rock - -	98 26 0	31812
Trechrig Mountain -	30 49 53	61398
Cyn y Gaio Barrow -	50 44 7	
Crug-edrid - -	64 7 42	17991
Dinas Rock - -	32 47 33	29889
Rhydybont Mountain -	83 4 45	
Crug-edrid -	88 48 25	45257
Brechva Mountain -	50 54 50	58306
Ruins of Sir Nicholas's Tower - -	40 16 45	
Dinas Rock - -	130 52 26	12705
Rhydybont Mountain	14 7 7	39295
Sir Nicholas's Tower	35 0 52	
Dinas Rock - -	106 56 37	24412
Sir Nicholas's Tower -	49 43 11	30612
Large Stone on Llanycrwys Mountain - -	23 20 12	
Sir Nicholas's Tower	14 42 20	39318
Llanycrwys Mountain	126 38 55	12413
Rhydybont Mountain -	38 38 45	
Rhydybont Mountain -	135 50 22	12448
Crug-edrid - -	17 50 30	28304
Llanycrwys Mountain -	26 19 8	
Rhydybont Mountain -	21 13 30	5665
Llanycrwys Mountain	15 56 7	7470
Shepherds Pen on Pencarreg Mountain	142 50 23	
Dinas Rock - -	98 0 0	10431
Sir Nicholas's Tower	36 10 15	17501
Barrow on Talley Mountain	45 49 45	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Rhydybont Mountain	26 11 22	37600
Sir Nicholas's Tower -	71 11 30	17529
Talley Barrow -	82 37 8	
Dinas Rock - -	43 19 21	12676
Cyn y Gaio Mountain	21 3 24	24207
Sir Nicholas's Tower -	115 37 15	
Dinas Rock -	111 24 18	3038
Cyn y Gaio Mountain -	4 54 35	33043
Llansowel Church Tower	63 41 7	
Nelson's Tower -	42 52 0	38582
Mancha Hill -	92 17 10	26268
Station near Mount Pleasant - -	44 50 50	
Nelson's Tower -	34 39 0	38589
Llansaint Hill -	42 30 23	32410
Mount Pleasant Station -	102 44 37	
Nelson's Tower -	11 43 15	42756
Mount Pleasant Station	110 39 30	9282
Centre Chimney of Penlan House - -	57 37 15	
Mancha Hill - -	85 59 7	34942
Nelson's Tower -	54 35 15	42770
Penlan House -	39 25 38	
Mount Pleasant Station	95 9 0	15292
Mancha Hill -	28 51 20	31559
Llangain Church -	55 59 40	
Mount Pleasant Station	51 26 15	12112
Mancha Hill - -	26 50 53	20976
Llan House, centre Chimn.	101 42 52	
Llansaint Hill -	128 44 23	10017
Penbree Hill - -	15 4 19	30048
Llandevaelog Church -	36 11 18	
Mount Pleasant Station	157 20 15	9574
Mancha Hill - -	5 59 57	35296
House, West end of Caermarthen - -	16 39 48	
Mancha Hill - -	26 1 48	35284
Llangynog Mountain -	45 21 7	21764
House, &c. - -	108 37 5	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Llangynog Mountain -	88 14 30	23198
Precelly Top - -	13 46 30	97379
Sir John's Hill House	77 59 0	
Llangynog Mountain -	156 54 3	29522
Nelson's Tower -	7 3 52	94152
Llanginning Steeple -	16 2 5	
Llangynog Mountain -	70 23 3	29527
Sir John's Hill House -	64 28 5	30823
Llanginning Steeple -	45 8 52	
Mount Pleasant Station	50 49 0	8926
Nelson's Tower -	11 51 33	33666
Aberguili Church -	117 19 27	
Nelson's Tower -	154 43 7	17302
Llangynog Mountain -	5 9 0	82317
Llangathen Church -	20 7 53	
Nelson's Tower -	77 38 3	17295
Brechva Mountain -	29 52 12	33921
Llangathen Church -	72 29 45	
Nelson's Tower -	93 52 40	16814
Mancha Hill - -	30 35 58	32958
Pile on the Great Mount.	55 31 22	
Lannon Station -	26 41 0	33048
Nelson's Tower -	61 57 0	16816
Great Mountain - -	91 22 0	
Lannon Station -	95 40 22	36204
Cefn Bryn -	28 36 8	75255
Llansaint Hill -	55 43 30	
Lannon Station -	113 7 49	62499
Trecastle, old Station -	22 56 12	147480
Cefn Bryn -	43 55 59	
Mancha Hill -	82 19 22	28512
Llangynog Mountain -	33 11 3	51627
Highest Point of Hill near Alt y Gog - -	64 29 5	
Mancha Hill -	50 17 [illegible]	28493
Mount Pleasant Station	69 48 22	23353
Hill near Alt y Gog -	59 54 35	
Margam Down -	33 16 55	19616
Kilvey Hill Windmill -	17 24 12	35990
Voel Vawr Barrow -	129 18 53	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Margam Down - -	24 28 21	60771
Kilvey Windmill -	100 17 22	25586
Mumbles Lighthouse	55 14 17	
Kilvey Windmill -	93 33 30	81696
Margam Down -	55 36 33	98810
Carreg Glwydd -	30 49 57	
Margam Down -	80 5 15	98795
Mumbles Lighthouse -	65 47 13	106707
Carreg Glwydd -	34 7 32	
Kilvey Windmill -	18 31 30	51293
Carreg Glwydd - -	26 14 22	36860
Roman Camp on Bettws Mountain - -	135 14 8	
Kilvey Windmill -	106 30 23	75077
Margam Down -	44 57 52	101802
Tre Carn Issa Centre Karn	28 31 45	
Kilvey Windmill -	12 57 15	75084
Carreg Glwydd -	63 8 38	18808
Tre Carn Issa -	103 54 7	
Margam Down -	71 39 22	108933
Kilvey Windmill -	80 57 22	104698
New Station on Trecastle Beacon - -	27 23 16	
Kilvey Windmill -	12 35 23	104678
Carreg Glwydd -	131 53 20	30649
Trecastle Beacon - -	35 31 15	
Kilvey Windmill - -	25 32 53	104695
Tre Carn Issa -	113 13 40	49112
Trecastle Beacon -	41 13 27	
Kilvey Windmill -	26 19 3	41598
Roman Camp -	52 47 8	23158
Llanguke Church -	100 53 49	
Kilvey Windmill - -	8 33 0	45627
Roman Camp - -	47 42 0	9171
White House -	123 45 0	
Carreg Glwydd - -	102 35 15	21294
Trecastle Beacon -	39 28 37	40962
Eastmost Carn on Trechrig Mountain -	46 53 41	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trecastle Beacon -	24 46 2	40981
Tre Carn Issa -	55 16 43	20888
Trechrig Mountain -	99 56 15	
Carreg Glwydd -	62 21 56	21326
Tre Carn Issa - -	64 35 30	20917
Trechrig Mountain -	53 8 34	
Kilvey Windmill - -	136 29 22	39448
Margam Down - -	18 53 41	83870
Cefn Bryn, near Pont ar Dulas - -	24 36 57	
Kilvey Windmill -	119 5 30	39421
Voul Vawr - -	31 59 11	65030
Cefn Bryn P. - -	28 5[illegible] 19	
Kilvey Windmill - -	80 32 15	53503
Cefn Bryn P. - -	59 51 45	61024
Cefn Bryn Station -	39 56 0	
Cefn Bryn P. - -	75 38 40	35507
Cefn Bryn - -	33 22 25	62534
Lannon Station -	70 58 55	
Trechrig Mountain -	64 21 30	46023
Trecastle Beacon -	63 5 30	46633
St. Mary on the Hill Steeple, Llandovery	52 33 0	
Trechrig Mountain -	48 7 0	39999
Carreg Glwydd -	100 16 0	30264
Barrow on the Van -	31 37 0	
Trechrig Mountain -	1 12 40	39964
Trecastle Beacon -	39 42 10	1322
Barrow on the Van -	139 5 10	
Trechrig Mountain -	14 20 37	25788
Barrow on the Van -	23 3 56	16306
Llandeveysant Church	142 35 27	
Trechrig Mountain -	14 38 47	26951
Trecastle Beacon - -	24 35 [illegible]	16381
Westmost Barrow on Carnglass - - -	140 46 1[illegible]	
Trechrig Mountain -	32 14 18	26958
Carreg Glwydd - -	95 54 30	14453
Westmost Barrow -	51 51 12	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trechrig Mountain -	64 13 7	15470
Trecastle Beacon - -	22 8 15	36968
Voel y Vraith - -	93 38 38	
Trechrig Mountain -	17 19 26	15491
Carreg Glwydd - -	35 16 15	7988
Voel y Vraith - -	127 24 19	
Carreg Glwydd -	36 54 16	18863
Roman Camp -	27 28 51	24546
Tre Carn Issa -	115 36 53	
Cefn Bryn - -	89 49 35	32113
Lannon Station - -	27 13 11	70208
Barrow on Rosilly Mount.	62 57 14	
Lannon Station - -	68 27 15	70236
Llansaint Hill - -	80 56 11	66147
Rosilly Barrow -	30 36 34	
Cefn Bryn - -	73 0 15	12553
Rosilly Barrow -	22 53 0	30874
West Chimney of House on Oxwich Point	84 6 45	
Cefn Bryn - -	63 37 32	28359
Lannon Station -	26 58 4	56026
East Signal Staff on Lanmadoc Hill - -	89 24 24	
Cefn Bryn - -	26 12 0	28351
Rosilly Barrow -	61 55 54	14186
East Signal Staff -	91 52 6	
Lannon Station -	68 42 22	56014
Llainsaint Hill -	73 5 11	54550
East Signal Staff - -	38 12 27	
Cefn Bryn - -	67 52 45	31061
Lannon Station -	29 30 41	58414
West Signal Staff on Lanmadoc Hill - -	82 36 34	
Cefn Bryn - -	21 57 37	31047
Rosilly Barrow -	74 2 45	12075
West Signal Staff -	83 59 38	
Lannon Station -	66 9 45	58410
Llansaint Hill - -	76 43 26	54894
West Signal Staff -	37 0 49	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cefn Bryn - -	44 47 59	2467
Rosilly Barrow -	3 16 33	30421
Nicholaston Church -	131 56 28	
Cefn Bryn -	22 0 45	8773
Rosilly Barrow -	7 48 30	24204
Penrice Steeple -	150 10 45	
Lannon Station -	42 23 52	51617
Penbree Hill - -	105 33 52	36124
East Turret of Webley House - -	32 2 16	
Lannon Station -	85 20 33	51582
Cefn Bryn P. - -	58 39 4	60199
Webley House -	36 0 23	
Lannon Station - -	49 12 22	52094
Penbree Hill - -	98 6 11	39836
Llanridian Steeple -	32 41 27	
Cefn Bryn - -	54 28 37	49768
Rosilly Barrow -	85 29 15	40632
Penbree Steeple - -	40 2 8	
Cefn Bryn - -	85 5 0	38112
Rosilly Barrow -	52 46 34	47686
Llanelly Steeple -	42 8 26	
Cefn Bryn - -	30 36 34	38154
Penbree Steeple -	48 55 47	25770
Llanelly Steeple -	100 27 39	
Cefn Bryn - -	77 42 37	38135
Kilvey Windmill -	39 23 8	58721
Llanelly Steeple -	62 54 15	
Lannon Station - -	43 31 55	36059
Cefn Bryn P. - -	69 20 25	26543
Loughor Glass Work -	67 7 40	
Lannon Station -	54 39 33	36092
Rosilly Barrow - -	30 49 19	57460
Glass Work - -	94 31 8	
Cefn Bryn P. - -	27 15 1[illegible]	41879
Cefn Bryn - -	38 52 6	30561
Machynis, West Chimney	113 52 39	
Cefn Bryn - -	84 20 5	30551
Rosilly Barrow -	46 15 22	42083
Machynis - -	49 24 33	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cefn Bryn P. -	58 54 59	20852
Cefn Bryn - -	19 33 43	53336
Llangevelach Steeple -	101 31 18	
Lannon Station -	54 26 32	52210
Cefn Bryn - -	52 56 54	53304
Llangevelach Steeple -	72 37 24	
Llangevelach Steeple	14 25 31	19522
Cefn Bryn P. - -	68 11 37	5238
Barrow on Green Hill	97 22 52	
Cefn Bryn P. -	67 14 26	5235
Kilvey Windmill -	7 21 14	37719
Barrow on Green Hill -	105 24 20	
Cefn Bryn P. - -	24 15 22	12242
Barrow on Green Hill -	139 40 33	7772
Barrow on the Moor -	16 4 5	
Matgam Down - -	21 25 15	80066
Kilvey Windmill -	129 8 8	37699
Barrow on Green Hill	29 26 37	
Margam Down -	34 11 18	80046
Carreg Glwydd -	54 4 32	55544
Barrow on Green Hill	91 44 10	
Carreg Glwydd -	20 4 0	86831
Kilvey Windmill - -	89 43 7	29793
Signal Staff - -	70 11 43	
Carreg Glwydd -	43 18 35	86807
Barrow on Green Hill	97 17 40	60031
Signal Staff - -	39 23 45	
Carreg Glwyd -	33 42 49	86035
Margam Down -	60 18 3	54975
Swansea Castle -	85 59 8	
Kilvey Windmill -	132 0 48	6052
Margam Down -	4 41 30	54976
Swansea Castle -	43 17 42	
Margam Down -	11 12 37	57078
Kilvey Windmill -	115 18 41	12275
Moriston Steeple - -	53 28 42	
Margam Down - -	23 32 36	80056
Tre Carn Issa - -	48 19 16	42815
Barrow on Green Hill -	108 8 8	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Barrow on Green Hill -	104 1 46	5236
Dinas Hill - -	6 43 53	43338
Cefn Bryn P. - -	69 14 21	
Tre Carn Issa - -	77 18 48	9617
Barrow on Green Hill -	12 58 50	41770
Dinas Hill - -	89 42 22	
Cefn Bryn P. - -	80 13 27	28697
Dinas Hill - -	36 19 26	47743
Lannon Steeple -	63 27 7	
Cefn Bryn P. - -	83 26 0	28675
Cefn Bryn - -	26 15 28	64388
Lannon Steeple -	70 18 32	
Carreg Glwydd -	79 57 2	72820
Margam Down -	39 47 18	112043
Lannon Steeple -	60 15 40	
Trechrig Mountain -	23 51 52	23660
Tre Carn Issa - -	94 23 34	9691
Dinas Hill - -	61 44 34	
Tre Carn Issa -	85 24 4	9610
Roman Camp -	21 56 40	25692
Dinas Hill - -	72 39 16	
Cefn Bryn P. - -	101 52 47	12297
Dinas Hill - -	14 42 0	47442
Forest Hall, long Chimney	63 25 13	
Barrow, Green Hill -	97 49 8	17493
Dinas Hill - - -	21 29 53	47429
Forest Hall - -	60 44 59	
Tre Carn Issa - -	30 48 52	17342
Dinas Hill - -	120 44 56	10349
Glenhairn Barn -	28 26 12	
Tre Carn Issa -	20 43 0	22014
Dinas Hill - -	144 39 30	13462
Llandabie Steeple -	14 37 30	
Dinas Hill - -	23 54 34	13509
Glenhairn Barn -	110 11 19	5834
Llandabie Steeple -	45 54 7	
Tre Carn Issa - -	69 56 44	34424
Roman Camp -	68 29 40	34757
Pile on Great Mountain	41 33 36	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Dinas Hill - -	86 4 44	25350
Roman Camp - -	46 33 0	31757
Pile on Great Mountain	47 22 16	
Great Mountain Pile -	19 49 19	51754
Tre Carn Issa -	129 8 45	22643
Cottage near a Plantation	31 1 56	
Carreg Glwydd - -	71 23 0	19889
Tre Carn Issa - -	56 24 45	22627
Cottage - -	52 12 15	
Great Mountain Pile -	25 21 3	45943
Tre Carn Issa -	109 50 52	20911
Trechrig Mountain -	44 49 25	
Dinas Hill - -	64 32 11	7180
Tre Carn Issa -	44 49 33	9196
Carreg Cennen Castle, highest Turret -	70 38 16	
Trechrig Mountain -	25 6 52	16495
Tre Carn Issa - -	48 34 56	9200
Carreg Cennen Castle	105 18 12	
Great Mountain -	125 18 55	45451
Dinas Hill - -	35 41 38	63566
House Highest, and on the South Side of Brechva Mountain - -	18 59 27	
Great Mountain -	108 1 37	16837
Trechrig Mountain -	17 22 45	53601
Nelson's Tower -	54 35 38	
Great Mountain -	14 5 41	58725
Trechrig Mountain -	127 36 0	18051
Llangadock Steeple -	38 18 7	
Trechrig Mountain -	110 13 15	18075
Nelson's Tower -	15 49 15	62206
Llangadock Steeple -	53 57 15	
Nelson's Tower -	70 59 0	5711
Brechva Mountain -	9 48 0	31721
Dryslwyn Castle - -	99 13 0	
Nelson's Tower -	79 17 52	4268
Dryslwyn Castle -	40 27 0	6464
Llandarthney Steeple -	60 13 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trechrig Mountain -	4 15 30	54997
Nelson's Tower -	126 56 45	4269
Llanarthney Steeple -	68 47 45	
Nelson's Tower -	49 5 22	6811
Lannon Station -	8 52 18	33377
Centre of Middleton Hall	122 2 20	
Nelson's Tower -	87 15 45	6781
Llanarthney Steeple -	59 47 0	7838
Middleton Hall -	32 57 15	
Nelson's Tower -	21 28 39	11622
Dryslwn Castle -	140 11 3	6645
Beltry of Meeting House at Cross Inn -	18 20 20	
Great Mountain -	7 41 45	39134
Trechrig Mountain -	36 11 50	8874
Carn y Ceggin -	136 6 25	
Llangadock Steeple -	25 54 45	20324
Trechrig Mountain -	91 24 30	8885
Carn y Ceggin -	62 40 45	
Trechrig Mountain -	71 27 30	23875
Great Mountain -	30 33 0	44532
Taliaris Pigeon House	77 59 30	
Carn y Ceggin -	96 15 0	17388
Great Mountain -	22 50 45	44520
Taliaris Pigeon House	60 54 15	
Trechrig Mountain -	46 37 4	23275
Taliaris Pigeon House	64 59 56	18665
Llandilo Steeple -	68 23 0	
Carn y Ceggin -	70 34 30	14733
Taliaris Pigeon House	48 3 0	18682
Llandilo Steeple -	61 22 30	
Carn y Ceggin -	13 2 40	14242
Llandilo Steeple -	75 3 15	3327
Cupola on Tregib House	91 54 [illegible]	
Nelson's Tower -	10 47 30	70831
Trechrig Mountain -	140 17 0	20769
Mandinam Hill -	28 55 4	
Trechrig Mountain -	30 3 30	20753
Llangadock Steeple -	89 26 37	10395
Mandinam Hill -	60 29 53	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trechrig Mountain -	47 52 30	19405
Llangadock Steeple -	67 16 22	14800
East Chimney of a House on Myddvai Mountain	64 51 8	
Llangadock Steeple -	121 15 0	14800
Nelson's Tower -	10 15 45	71020
Chimney of House -	48 29 15	
Garth - -	51 48 0	58078
Ogmoor Down -	48 49 1	60630
Carn Vawr - -	79 22 59	
Garth - - -	78 32 20	42861
Carn Vawr - -	40 17 2	64969
Stalling Down Signal Staff	61 10 38	
Ogmoor Down -	27 11 37	42219
Garth - - -	26 44 21	42882
Stalling Down Signal Staff	126 4 2	
Ogmoor Down -	87 55 31	26587
Margam Down -	28 46 56	55183
St. Mary, Hill Steeple	63 17 33	
Ogmoor Down -	35 30 30	26557
Stalling Down Signal Staff	36 49 27	25735
St. Mary, Hill Steeple	107 40 3	
Margam Down -	11 43 37	29019
Ogmoor Down -	15 44 57	21731
Newton Down Signal Staff	152 31 26	
Ogmoor Down -	103 40 22	21743
St. Mary, Hill Steeple	33 40 20	38104
Newton Down Signal Staff	42 39 18	
Margam Down -	100 8 48	8155
Newton Down Signal Staff	14 46 0	31497
Barrow on Margam Down	65 5 12	
Newton Down -	50 17 30	12802
Margam Down -	25 17 37	23051
Kenfig Steeple -	104 24 53	
Margam Down -	19 26 0	22358
Newton Down -	35 31 30	12800
Kenfig Steeple -	125 2 30	
Ogmoor Down -	33 23 31	58553
Stalling Down Signal Staff	101 41 32	32908
Llantrisant Steeple -	44 54 57	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Ogmoor Down -	29 55 38	43012	Ogmoor Down - -	33 15 12	14983
Garth - -	29 5 20	44128	Bridgend Steeple -	67 19 22	8904
St: Hilary Steeple -	120 54 2		Llaleston Steeple -	79 25 26	
Garth - - -	47 21 22	49697	Bridgend Steeple - -	115 4 26	8912
Carn Vawr - -	56 16 0	43958	Carn Vawr - -	9 27 45	49102
St. Mary, Hill Steeple	76 22 38		Llaleston Steeple - -	55 27 49	
Carn Vawr - -	23 46 [illegible]	44657	Ogmoor Down -	23 8 0	38171
St Mary, Hill Steeple	80 15 59	18264	Stalling Down Signal Staff	64 37 17	16599
Bridgend Steeple -	75 57 42		Windmill near a round House -	92 14 43	
Ogmoor Down -	42 19 0	15963			
St. Mary, Hill Steeple	36 2 30	18265	Ogmoor Down - -	52 53 24	38157
Bridgend Steeple -	101 38 30		Carn Vawr - -	38 58 37	48377
			Windmill - -	88 7 59	

ART. XIII. *Triangles for the Survey of Cambridgeshire.* *Plate* XIII.

Maddingly - -	98 49 3	68127	Orwell - -	75 6 40	22326
Balsham - -	43 2 55	98622	Balsham - -	17 29 10	71807
Sutton Steeple - -	38 8 2		Hardwick Spire -	87 24 19	
Maddingly - -	95 17 44	30192	Orwell - -	90 23 56	4025
Balsham - -	25 1 8	71085	Ashwell Spire -	4 22 2	52860
Orwell Pole - -	59 41 8		Orwell Pole -	85 14 2	
Maddingly - -	41 32 32	88680	Royston - -	9 45 25	71870
Balsham - -	107 23 36	47954	Orwell - -	155 52 3	29789
Newmarket - -	31 3 52		Cambridge, St. Mary's	14 22 32	
Orwell - -	91 48 45	4028	Royston - - -	4 56 35	42037
Maddingly - -	7 39 46	30194	Orwell - -	64 3 25	4028
Orwell Pole -	80 31 29		Orwell Pole -	111 0 0	
Orwell - -	3 38 5	28645	Royston - -	49 19 0	8135
Maddingly - -	56 40 33	2181	Orwell Pole - -	9 32 0	37249
Coton Spire - -	120 1 22		Royston Steeple -	121 9 0	
Orwell - -	59 31 6	78735	Royston - -	103 36 40	23661
Maddingly - -	98 36 3	68608	Orwell Pole -	25 47 0	52868
Balsham Steeple -	21 58 51		Ashwell Spire -	50 36 20	
Orwell - -	37 47 56	4024	Royston - -	66 13 0	24663
Balsham - -	1 59 7	71087	Orwell Pole - -	35 7 0	39232
Orwell Pole - -	140 12 47		Guildford Morden -	78 40 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Royston - -	51 16 40	94158	Stretham Spire -	82 23 0	26332
Orwell - -	102 55 40	75371	Ely Minster - -	55 6 0	31823
Balsham Steeple -	25 47 40		Sutton Steeple -	42 31 0	
Royston - - -	105 6 0	43882	Stretham Spire -	80 58 0	28152
Orwell Pole -	41 2 0	64535	Sutton Steeple -	51 45 30	35400
Gog Magog -	33 52 0		Cottenham Steeple -	47 16 30	
Royston - -	26 24 0	34776	Stretham Spire -	103 25 0	33736
Orwell Pole - -	54 51 0	18911	Sutton Steeple -	43 51 0	47368
Croydon Steeple -	98 45 0		Landbeach Spire -	32 44 0	
Orwell Pole - -	19 45 0	39235	Stretham Spire -	22 22 30	16762
Croydon Steeple -	143 39 0	22369	Sutton Steeple -	30 30 0	12572
Guildford Morden -	16 36 0		Haddenham Spire -	127 7 30	
Maddingly - -	0 9 40	252	Stretham Spire -	35 8 0	47676
Newmarket - -	99 20 20	88721	Sutton Steeple -	114 48 0	30216
Newmarket Telegraph	80 30 0		Bluntesham Spire -	30 4 0	
Maddingly - -	26 9 5	79149	Stretham Spire - -	59 45 0	71594
Newmarket - -	63 11 10	39087	Newmarket - -	66 39 0	67362
Soham Steeple -	90 39 45		Gog Magog -	53 30 0	
Maddingly - -	16 13 40	86579	Stretham Spire -	12 33 0	39482
Newmarket - -	77 4 50	24824	Newmarket - -	19 32 0	25659
Fordham Steeple -	86 41 30		Burwell Spire - -	147 55 0	
Maddingly - -	45 0 46	63040	Stretham Spire -	27 3 0	41378
Newmarket -	45 18 18	62721	Newmarket -	96 2 0	31989
Stretham Spire -	89 40 56		Swaffham Steeple -	116 55 0	
Newmarket -	65 47 20	90650	Stretham Spire -	41 25 0	49599
Balsham - -	82 34 20	83376	Newmarket -	52 7 10	41571
Willingham Spire -	31 38 20		Bottisham Steeple -	86 27 50	
Newmarket -	86 50 48	62752	Royston - -	49 56 30	65949
Balsham - -	54 36 57	76852	Balsham - -	44 39 50	71807
Stretham Spire -	38 32 15		Hardwick Spire -	85 23 40	
Maggots Mount -	9 17 18	49781	Chatteris - -	98 58 0	32032
Balsham - -	111 5 24	8613	Ely Minster -	28 20 0	66663
Balsham Steeple -	59 37 18		March Spire -	52 42 0	
Newmarket -	18 3 0	62766	Chatteris -	22 41 0	56054
Ely Minster - -	63 40 40	21697	Ely Minster - -	84 48 0	21706
Stretham Spire -	98 16 20		Stretham Spire -	72 31 0	
Newmarket -	84 43 0	67430	Chatteris - -	104 28 0	15462
Ely Minster - -	46 47 0	92133	Ely Minster -	14 35 0	59464
Gog Magog -	48 30 0		Doddington Spire -	60 57 0	

Names of Stations and interested Objects.	Angles for Calculation	Distances in Feet
	° ′	
Sutton Steeple	14 35	42864
Chatteris -	135 40	15444
Doddington Spire	29 45	
Sutton Steeple	25 36	56665
Chatteris -	130 10	32040
March Spire -	24 14	
Sutton Steeple	59 54	30415
Chatteris -	60 0	20280
Somersham Steeple	60 5	
Sutton Steeple	69 19	49820
Chatteris -	93 5	27830
Warboys Spire	37 35	
Sutton Steeple	94 23	6735
Chatteris -	12 15	21672
Witcham Steeple	73 22	
Sutton Steeple -	134 30	1109
Chatteris -	11 42	2902
Wentworth -	33 48	
Chatteris -	44 36	45485
Sutton Steeple	93 30	22000
Downham Spire	41 54	
Stretham Spire	20 28	77847
Chatteris -	121 48	22026
March Spire -	27 44	
Stretham Spire	32 15	1675
Chatteris -	12 3	42822
Haddenham Spire	135 42	
Sutton Steeple	26 1	4859
Ely Minster -	119 4	24238
Little Port -	34 55	
Sutton Steeple	119 8	30438
Ely Minster -	29 41	63688
Chatteris -	31 11	
Stretham Spire	97 45	71330
Balsham -	39 16	111678
Fen Stanton -	42 59	
Stretham Spire	105 41	47760
Balsham -	27 5 2	100788
Bluntisham Spire	47 12 4	

Names of Stations and interested Objects.	Angles for Calculation	Distances in Feet
	° ′	
Stretham Spire	97 45	698
Balsham -	38 44	110575
St. Ives Spire -	43 31	
Stretham Spire	59 46 3	28158
Balsham -	21 13	67226
Cottenham -	99 0 17	
Stretham Spire	37 57	69851
Cottenham -	122 5	50700
St. Ives Spire -	19 58	
Bottisham Steeple	32 49	22757
Stretham Spire -	22 2	32876
Waterbeach -	125 9	
Bottisham Steeple	34 38	41597
Stretham Spire -	56 58	28199
Cottenham -	88 24	
Bottisham Steeple -	41 10	59058
Stretham Spire	82 28	39213
Willingham Spire	56 22	
Cottenham -	32 40 40	3092
Balsham -	22 3	44453
Chesterton Spire	125 15	
Cottenham -	127 56	46090
Balsham -	20 49	102246
Fen Stanton -	31 13	
Cottenham -	132 7 2	31708
Balsham -	14 53	91566
Swavesey Steeple	32 59	
Cottenham -	105 57	20641
Balsham -	15 13 4	75552
Lesy Stanton -	58 4	
Cottenham -	83 52 4	18997
Balsham -	16 9	67881
Oakingham -	79 57 5	
Cottenham -	106 18	39156
Balsham -	25 39 4	86781
Boxworth Spire	48 1 5	
Cottenham -	25 49	39135
Swavesey Steeple	101 40	17402
Boxworth Spire	52 21	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Cottenham - -	26 12 0	20631	Puttock's Bridge -	136 21 0	9289
Swavesey Steeple -	34 37 0	16035	Chatteris - -	15 34 0	23892
Long Stanton - -	119 11 0		Benwick Chapel -	28 5 0	
Cottenham - -	4 10 30	46363	Chatteris - -	58 12 0	16303
Swavesey Steeple -	166 51 0	14837	Warboys Spire -	25 21 0	32361
Fen Stanton -	8 58 30		Puttock's Bridge -	96 27 0	
Bottisham Steeple -	22 25 20	34798	Chatteris - -	28 57 0	35578
Balsham Station -	109 44 40	14102	Warboys Spire -	68 44 0	18479
Weston Colville -	47 50 0		Ramsey Steeple -	82 19 0	
Bottisham Steeple -	105 28 40	28478	Balsham - -	19 31 0	46031
Balsham Station -	38 6 0	44480	Royston - -	17 3 10	52437
Chesterton Spire -	36 25 20		Maggot's Mount -	143 25 50	
Bottisham Steeple -	38 10 20	28755	Maggot's Mount -	21 35 30	17736
Balsham - -	74 53 40	18407	Royston - -	10 17 30	36532
Westley Steeple -	66 56 0		Foulmire Steeple -	148 7 0	
Bottisham Steeple	15 35 0	9361	Foulmire Steeple -	20 52 0	14318
Balsham - -	7 47 20	18557	Royston - -	12 25 20	23709
Great Wilbraham -	156 37 40		Melbourn Steeple -	146 42 40	
Bottisham Steeple -	39 11 20	29236	Foulmire Steeple -	105 49 0	20526
Balsham - -	75 36 0	19073	Royston - -	25 7 0	46526
Borough Green -	65 12 40		Chapel Bush -	49 4 0	
Bottisham Steeple	24 12 0	39234	Foulmire Steeple -	47 32 0	15643
Cottenham - -	70 8 0	17101	Royston -	23 57 24	28420
Histon Steeple -	85 40 0		Meldreth Steeple -	108 30 36	
Stretham Spire -	17 9 0	17195	Foulmire Steeple -	40 20 0	7527
Sutton Steeple -	27 7 0	11124	Maggots Mount -	22 6 0	12950
Wentworth Steeple -	135 44 0		Thriplow Steeple -	117 34 0	
Stretham Spire -	39 1 0	26833	Foulmire Steeple -	42 18 0	20505
Sutton Steeple -	72 1 0	17760	Maggot's Mount -	79 27 0	14038
Coveney Steeple -	68 58 0		Chapel Bush -	58 15 0	
Stretham Spire -	115 52 0	32917	Foulmire Steeple -	51 32 0	23772
Sutton Steeple -	36 3 0	50331	Chapel Bush -	72 52 0	19477
Waterbeach -	28 5 0		Great Shelford Spire -	55 36 0	
Chatteris - -	147 47 0	16319	Maggot's Mount -	29 45 0	20243
Haddenham Spire -	8 44 0	57298	Balsham Steeple -	17 19 20	33736
Puttock's Bridge -	23 29 0		Gog Magog Telegraph	132 55 40	
Chatteris - -	72 59 0	16295	Balsham - -	23 26 0	12373
Doddington - -	55 35 0	18887	Gog Magog - -	12 27 0	22824
Puttock's Bridge -	51 26 0		Gunner Hill, Tree -	144 7 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′	
Balsham - -	157 58 0	6100	Gog Magog - -	35 3 3	32415
Gog Magog - -	3 20 0	39362	Hardwick Spire -	45 34 3	26072
Wratting Mill -	18 42 0		Chapel Bush - -	99 22	
Balsham - -	119 16 0	19707	Gog Magog - -	22 31	50241
Gog Magog -	21 40 0	46564	Chapel Bush - -	126 2	23792
Brinkley Steeple -	39 4 0		Caldecot Steeple -	31 27	
Gog Magog - -	20 54 0	32004	Gog Magog - -	23 1	46553
Gunner Hill, Thorn -	121 47 0	13431	Chapel Bush - -	119 49	20979
Linton Mill -	37 19 0		Toft Steeple - -	37 10	
Gog Magog - -	4 6 0	33515	Hardwick Spire -	88 1	13621
Linton - -	120 44 0	2787	Orwell Pole - -	29 53	27321
Linton Steeple -	55 10 0		Ash Tree - -	62 6	
Balsham - -	25 51 0	12619	Orwell Pole -	36 30	31052
Balsham Steeple -	116 30 0	6148	Hardwick Spire -	92 29	18487
Wratting Mill -	37 39 0		Crow Hill Lea -	51 1	
Balsham - -	160 27 5	19714	Hardwick Spire -	114 43 1	13622
Royston - -	3 20 55	112930	Chapel Bush - -	21 16 5	34093
Brinkley Steeple -	16 12 0		Ash Tree - -	44 0	
Gog Magog -	33 19 0	32004	Ash Tree - -	62 53	8589
Balsham Steeple -	68 34 40	18883	Chapel Bush - -	14 13	31129
Linton Mill -	78 6 20		Bourne Spire - -	102 54	
Balsham Steeple -	65 27 0	24823	Ash Tree - -	118 10	11577
Linton Mill - -	69 13 0	24150	Chapel Bush - -	14 28	40853
Shudy Camps Steeple	45 20 0		Caxton Steeple -	47 22	
Balsham Steeple -	67 56 0	6133	Ash Tree - -	90 6	5068
Shudy Camps - -	14 10 0	23225	Bourne Spire - -	30 31	9981
Wratting Mill -	97 54 0		Lea Ash - -	59 23	
Balsham Steeple -	70 12 0	12680	Ash Tree - -	75 26	13560
Wratting Mill -	81 7 0	12075	Lea Ash - -	82 48	13228
Horseheath Mill -	28 41 0		Long Stow Steeple -	21 46	
Balsham Steeple -	39 5 0	10186	Fordham Steeple -	67 3	22052
Wratting Mill -	105 19 0	6658	Newmarket Telegraph	51 40 30	25884
West Wickham Steeple	35 36 0		Burwell Spire -	61 16 30	
Orwell Pole - -	121 51 0	22047	Fordham Steeple -	36 49	18316
Gog Magog - -	18 40 0	58512	Newmarket Telegraph	47 42	14840
Bourne Spire - -	39 29 0		Exning Steeple -	95 29 0	
Stretham Spire -	36 11 0	72588	Fordham Steeple -	12 46	24824
Gog Magog - -	73 7 0	44784	Newmarket Telegraph	85 25 0	5503
Hardwick Spire -	70 42 0		Newmarket Great Church	81 49 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Sutton Steeple -	47 10 0	68571
Little Port - -	87 45 0	50325
Isleham Steeple -	45 5 0	
Ely Minster - -	53 26 0	103629
Chatteris - -	95 31 30	83627
Wisbich - -	31 2 30	
Wisbich - -	57 16 0	64245
Chatteris - -	47 52 0	72875
Thorney Abbey -	74 52 0	
Ely Minster -	57 25 0	82477
March Spire -	72 15 0	72970
Downham - -	50 20 0	
Doddington - -	67 10 0	84730
Ely Minster - -	71 12 0	82491
Downham - -	41 38 0	
Ely Minster - -	26 14 0	77803
Downham - -	69 45 0	36657
Upwell Spire - -	84 1 0	
Ely Minster - -	34 31 0	111362
Downham - -	98 22 0	63782
Leverington Spire -	47 7 0	
Ely Minster - -	32 16 0	103625
Downham - -	95 19 0	55562
Wisbich - -	52 25 0	
Wisbich - -	17 33 0	104709
Ely Minster - -	83 9 0	31801
Sutton - -	79 18 0	
Wisbich - -	108 12 0	64206
Ely Minster - -	26 15 0	137904
Lynn, Old Tower -	45 35 0	
Wisbich - -	82 48 0	99156
Ely Minster - -	47 10 0	134146
Peterborough Cathedral	50 2 0	
Wisbich - -	9 42 0	85069
Ely Minster - -	35 56 0	24424
Little Port - -	134 22 0	
Wisbich - -	106 48 0	75507
Ely Minster -	29 57 0	144787
Crowland Abbey -	43 15 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Wisbich - -	88 17 0	64282
Ely Minster - -	32 17 0	120300
Thorney Abbey -	59 26 0	
Downham - -	69 54 0	56497
Wisbich - -	55 44 0	64199
Lynn Old Tower -	54 22 0	
Downham - -	5 24 0	52636
Wisbich - -	57 28 0	5875
Walsoken -	117 8 0	
Chatteris - -	64 56 0	56557
Wisbich - -	40 39 0	78642
Whittlesea - -	74 25 0	
Chatteris - -	46 19 0	35616
Whittlesea - -	38 52 0	41045
Ramsey Steeple -	94 49 0	
Lynn - - -	105 12 0	19541
Wisbich - -	15 13 0	71844
Middleton Steeple -	59 35 0	
Lynn - -	40 47 0	10676
Wisbich - -	7 5 0	56550
Clench Wharton -	132 8 0	
Lynn - -	13 43 0	18858
Wisbich - -	5 34 0	46099
Tinley St. Lawrence -	160 43 0	
Lynn - -	95 13 0	10650
Downham - -	10 27 0	58472
Clench Wharton -	74 20 0	
Lynn - - -	50 47 0	19520
Downham - -	18 53 30	46708
Middleton Steeple -	110 19 30	
Lynn - -	68 8 0	18842
Downham - -	19 27 0	52513
Tinley St. Lawrence	92 25 0	
Lynn - -	54 33 0	58331
Downham - -	64 30 0	52646
Walsoken -	60 57 0	
Whittlesea - -	6 44 0	70598
Wisbich -	44 11 0	11877
Walton Steeple - -	129 5 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Whittlesea - -	12 2 0	58317	Cottenham - -	12 21 0	66803
Wisbich - -	29 23 0	24779	St. Ives - -	135 32 0	20397
Parson's Drove -	138 35 0		King's Bush -	32 7 0	
Whittlesea - -	68 57 0	46651	St. Ives -	33 42 0	23543
Wisbich - -	35 8 0	75655	King's Bush - -	86 27 0	13088
Crowland Abbey -	75 55 0		Huntingdon Steeple -	59 51 0	
Peterborough -	11 11 0	78628	St. Ives - -	156 19 0	15252
Wisbich - -	34 42 10	26786	King's Bush - -	10 6 30	34905
Whittlesea Spire -	134 6 50		Wheat Sheaf Inn -	13 34 30	
Peterborough -	91 14 0	23991	Wheat Sheaf Inn -	23 58 0	57885
Whittlesea - -	41 18 0	36333	King's Bush - -	127 25 0	29604
Yaxley Spire - -	47 28 0		Eltesley Spire -	28 37 0	
Cottenham - -	87 8 0	66797	Cottenham - -	16 48 0	69222
Sutton - -	64 20 0	74016	King's Bush - -	88 29 0	20014
King's Bush - -	28 32 0		Yelling Spire - -	74 43 0	

ART. XIV. *Secondary Triangles for the Survey of the remaining Part of Berkshire,* together with Part of Bedfordshire and Part of Buckinghamshire. Plate* XIV.

The Distances serving as Base Lines for the following Triangles are,

Pen Steeple to Stanmore Station -	75325,4 Feet
Bagshot Heath to Nuffield - -	105321,2
Bagshot Heath to Hind Head - -	92425.9
Quainton to Bow Brickhill - -	67491.4
Lillyhoe to Bow Brickhill - -	69868
Kensworth to Bow Brickhill - -	57668
Kensworth to Wendover - -	67096.7
Brogborough from Bow Brickhill -	22586,7
Kensworth to Stanmore Station -	98577.5
St. Ann's Hill to Hanger Hill Tower	68895.8
St. Ann's Hill to Pen Steeple -	92000.5

Stanmore -	73	17	18	107464	Wendover	59	18	14	193032
Bagshot Heath	47	10	13	140342	Stanmore	86	55	28	166125
Wendover	59	32	29		Royston	33	46	18	
Wendover	102	22	26	92402	Wendover	64	43	46	114355
Stanmore	35	20	38	156020	Stanmore	60	26	30	118884
Bow Brickhill	42	16	56		Lillexhoe	54	49	44	

See p. 269.

Names of Stations and intersected Objects.	Angles for Calculation	Distance in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
				° ′ ″	
Pen Steeple	70 12	56120	Kensworth - -	4 21 5	41929
Stanmore -	43 9 20	77198	Bow Brickhill -	11 20 33	16176
Windsor Castle	66 38 40		Hill Farm - -	164 18 2	
Pen Steeple	12 20 40	79987	Hill Farm - -	54 39 4	20862
Stanmore -	99 20 20	17330	Kensworth - -	29 4[illegible] 4	34371
Harrow Spire	68 19		Leighton Spire -	95 39 3	
Bagshot Heath	48 47 12	105322	Kensworth -	59 9 4[illegible]	18212
Nuffield -	71 13 46	83680	Leighton Spire -	31 59 2[illegible]	29518
Pen Steeple	59 59		Ivinghoe Hill -	88 51 [illegible]	
Hind Head -	18 44 32	180325	Leighton Spire -	9 58 [illegible]	29816
Bagshot Heath	143 30 44	97436	Ivinghoe Hill -	88 22 [illegible]	5162
Nettlebed -	17 44 44		Ivinghoe Spire -	81 40 [illegible]	
Bow Brickhill	61 13 54	77064	Leighton Spire -	24 36 3[illegible]	44328
Hanslope -	75 33 59	69735	Ivinghoe Hill -	119 36 [illegible]	21229
Pavenham -	43 12		Tring Steeple -	35 47 3[illegible]	
Bow Brickhill	70 16	107275	Wendover - -	30 7 54	53027
Hanslope -	79 45	102614	Kensworth - -	21 49 6	09088
Keysoe Spire	29 58 56		Long Crindon Mill -	28 3	
Bow Brickhill	58 19 58	84080	Long Crindon Mill -	3 40 3	51061
Hanslope -	81 46 57	72304	Kensworth - -	3 13 26	58217
Sharnbrook -	39 53 5		Bearston Steeple -	73 6	
Bow Brickhill	40 28 54	77236	Long Crindon Mill -	12 56 30	17184
Hanslope -	94 52 48	50324	Kensworth -	7 47	16857
Cobham's Pillar	44 38 18		Brill Spire - -	59 16 30	
Quainton -	75 4 46	58758	Hill Farm - -	70 40 16	34281
Bow Brickhill	47 19 1	77236	Bow Brickhill -	81 30 20	32707
Cobham's Pillar	57 36 13		Stewkley Steeple -	27 49 24	
Quainton -	75 15 34	79188	Brogborough -	15 7 14	36711
Bow Brickhill	49 13 49	62013	Bow Brickhill -	43 18 40	16023
Stow Pyramid	55 30 37		Bletchley Steeple -	21 34 6	
Lillyhoe -	15 19 30	118629	Brogborough -	11 37 10	30625
Bow Brickhill	44 51 38	54475	Bow Brickhill -	40 13 50	9642
Hanslope Spire	19 48 52		Fenny Stratford -	28 9 0	
Lillyhoe -	28 29 54	80236	Brogborough -	25 53 50	17875
Bow Brickhill	90 58 5	38289	Bow Brickhill - -	0 11 40	10163
Wing Steeple	60 32 1		Wavendon Steeple -	03 54 30	
Lillyhoe -	35 46 6	87764	Kensworth -	41 16 0	01059
Bow Brickhill	91 30 2	51317	Stanmore - -	71 15 30	70387
Wingrave Steeple	52 43 52		Berkhampstead Gazebo	67 28 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Kensworth -	23 5 15	60355
Stanmore - -	28 53 40	48981
St. Peter's Steeple, St. Albans - -	128 1 5	
Kensworth - -	72 40 10	18282
Stanmore - -	10 36 50	94752
Crawley Clump -	96 43 0	
St. Ann's Hill -	14 48 30	77205
Hanger Hill Tower -	106 14 0	20551
Harrow Spire -	58 57 30	
St. Ann's Hill -	55 35 6	77207
Pen Steeple - -	52 47 22	79974
Harrow Spire -	71 37 32	
St. Ann's Hill -	70 23 36	68893
Pen Steeple -	43 17 40	94639
Hanger Hill Tower -	66 18 44	
Pen Steeple -	35 0 0	14386
Harrow Spire -	6 54 0	68687
Beaconsfield Spire -	138 6 0	
Harrow Spire -	35 21 30	31260
Beaconsfield -	22 43 30	46888
Hillingdon Steeple -	121 55 0	
Hillingdon Steeple -	110 52 0	5991
Harrow Spire -	9 31 0	33864
Uxbridge Steeple -	59 37 0	
Hillingdon Steeple	106 2 0	18063
Harrow Spire -	25 36 0	40178
Hare and Hounds -	48 22 0	
Hillingdon Steeple -	152 43 0	15715
Harrow Spire -	9 3 0	45798
Iver Heath Direction Post	18 14 0	
Beaconsfield -	72 6 0	14308
Pen Steeple -	53 44 0	16886
Woburn Green, Tree.	54 10 0	
Beaconsfield - -	85 10 0	30739
Pen Steeple - -	68 56 10	32823
Cookham Dean, Tree	25 53 50	
Beaconsfield - -	9 2 0	15466
Pen Steeple -	110 5 0	2585
Meeting House, Pen Beacon -	66 53 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Pen Steeple - -	22 44 0	14373
Windsor Flag Staff -	7 23 0	43221
Beaconsfield Spire -	149 53 0	
Beaconsfield - -	64 43 0	30703
Windsor Castle -	42 42 0	40911
Cookham Dean, Tree	72 35 0	
Windsor Castle -	15 0 0	24042
Cookham Dean, Tree	19 20 0	18796
Bray Steeple - -	145 40 0	
Windsor Castle -	19 50 50	37756
Cookham Dean, Tree	66 59 0	13927
Mount Pleasant -	93 10 10	
Windsor Castle -	45 21 0	18790
Cookham Dean, Tree	25 43 0	30805
Farnham Steeple -	108 56 0	
Windsor Castle -	107 35 10	14202
Cookham Dean, Tree	16 40 50	47165
Langley Steeple -	55 44 0	
Cookham Dean, Tree	24 2 0	14238
Bray Steeple - -	45 2 0	8196
Taplow Church Yard, Yew - -	110 56 0	
Cookham Dean, Tree	45 34 0	33552
Bray Steeple -	101 5 0	24416
Fox's Large House -	33 21 0	
Cookham Dean, Tree	46 29 0	35272
Bray Steeple - -	102 7 0	26161
Stoke Spire - -	31 24 0	
Cookham Dean, Tree	86 18 0	22660
Bray Steeple - -	37 50 0	13928
Mount Pleasant -	55 52 0	
Cookham Dean, Tree	45 2 0	30753
Bray Steeple - -	97 44 0	21978
Farnham Steeple -	37 14 0	
Cookham Dean, Tree	102 34 0	17248
Bray Steeple -	36 47 0	28114
Woburn Green, Tree	40 39 0	
Cookham Dean, Tree	75 56 0	9717
Bray Steeple -	29 50 0	18945
Cookham Steeple -	74 14 0	

Names of Stations and intersected objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Woburn Green, Tree	102 12 40	18766
Mount Pleasant -	62 41 0	20648
Marlow Hill, Tree -	15 6 20	
Woburn Green, Tree	83 28 0	10287
Mount Pleasant -	67 1 0	11102
Little Marlow Spire -	29 31 0	
Marlow Hill, Tree -	74 40 0	10301
Woburn Green, Tree -	31 46 0	18869
Great Marlow Spire	73 34 0	
Farnham Steeple -	87 53 0	10868
Bray Steeple -	26 43 0	24156
Herschel's Telescope -	65 24 0	
Farnham Steeple -	20 46 0	10159
Bray Steeple - -	16 6 0	12989
Burnham Steeple -	143 8 0	
Hare and Hounds -	51 19 0	4121
Hillingdon Steeple -	11 44 0	15818
Denham Spire -	116 57 0	
Beaconsfield -	51 41 0	20641
Hillingdon - -	25 27 0	37687
Sir H. Gitt's Monument	102 52 0	
Beaconsfield - -	48 14 30	29018
Cookham Dean, Tree	62 12 30	24637
Hill Farm, Ash, near Wickham - -	69 33 0	
Cookham Dean, Tree	28 43 0	30860
Beaconsfield - -	76 5 0	15276
Meeting House, Pen -	75 12 0	
Cookham Dean, Tree -	89 0 0	29330
Beaconsfield - -	44 8 0	42116
Whitlington Park, Clump	46 52 0	
Mount Pleasant - -	40 44 0	18636
Cookham Dean, Tree	90 59 0	12163
Cupola, Large House, Maidenhead -	48 21 0	
Mount Pleasant -	30 42 0	37557
Bray Steeple - -	116 41 0	21463
Shottesbrook Spire -	32 37 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Woburn Green, Tree	27 19 [illegible]	4214 2
Bray Steeple - -	115 38 0	21449
Shottesbrook Spire -	37 3 0	
Cookham Dean, Tree -	153 45 0	55603
Windsor Castle -	15 9 0	94099
Nettlebed - -	11 6 0	
Nettlebed - -	22 53 0	20690
Cookham Dean, Tree	12 25 0	37417
Clump above Henley -	144 42 0	
Nettlebed - -	27 47 20	48142
Windsor Castle -	23 32 40	56188
Ruscombe Steeple -	128 40 0	
Nettlebed - -	43 27 0	16911
Ruscombe Steeple -	17 58 0	37703
Fawley Steeple	118 35 0	
Nettlebed - -	5 18 30	36657
Ruscombe Steeple -	16 14 30	12126
Shiplake Steeple -	58 27 0	
Nettlebed - -	76 40 0	20707
Ruscombe Steeple -	11 51 0	28921
Henley Clump -	151 29 0	
Ruscombe Steeple -	22 20 0	8903
Shiplake Steeple -	41 1 0	5155
Walgrave Steeple -	116 39 0	
Ruscombe Steeple -	28 23 0	24347
Shiplake Steeple -	128 46 0	14842
Henley Steeple -	22 51 0	
Nettlebed - -	6 39 0	39283
Shiplake Steeple -	117 26 0	5125
Walgrave Steeple -	55 55 0	
Nettlebed - -	15 10 0	20731
Walgrave Steeple -	15 43 0	20023
Henley Clump -	149 7 0	
Nettlebed - -	41 54 0	28982
Walgrave Steeple -	22 57 0	16922
Fawley Steeple -	115 9 0	
Walgrave Steeple -	82 42 0	9610
Ruscombe Steeple -	51 8 0	12242
Jews Summer House	46 10 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Kensworth - -	13 12 40	117116	Hadwell Barrow -	118 9 40	14278
Quainton - -	137 18 50	39479	Long Crindon Mill -	16 36 20	44048
Brill Steeple - -	29 28 30		Aston Hill, Cot. House	45 14 0	
Kensworth - -	20 27 3	65341	Hadwell Barrow -	78 15 0	36616
Quainton - -	43 50 18	32962	Long Crindon Mill -	54 36 0	43013
Aylesbury Spire -	115 42 39		Risborough Spire -	52 9 0	
Quainton - -	81 56 22	51062	Hadwell Barrow -	19 39 0	27340
Long Crindon Mill -	42 0 43	34516	Long Crindon Mill -	43 24 0	13381
Bearston Steeple -	56 2 55		Kingsley Mill -	116 57 0	
Long Crindon Mill	2 30 0	43788	Hadwell Barrow - -	66 47 0	42212
Bearston Steeple -	14 38 0	7560	Tame Steeple -	79 22 0	39472
Aylesbury Spire -	162 52 0		White Leaf Cross -	33 51 0	
Long Crindon Mill	53 10 0	51505	Aylesbury Spire -	50 56 0	42212
Aylesbury Spire -	72 39 0	43189	Hadwell Barrow -	24 5 0	39472
Lousley Row Mill -	54 11 0		Ellesborough Station -	104 59 0	
Quainton - -	66 2 55	42779	Ellesborough Hill -	63 13 0	22226
Aylesbury Spire -	44 45 45	43756	Aylesbury Spire -	51 7 0	25490
Long Crindon -	69 11 20		White Hill Barrow -	65 40 0	
Long Crindon Mill -	26 35 0	51895	Ellesborough Hill -	41 24 0	27715
Aylesbury Steeple -	96 31 0	23374	Aylesbury Spire -	74 5 0	19[illegible]59
Whitchurch Steeple -	56 54 0		Dinton Steeple -	64 31 0	
Long Crindon Mill -	101 32 0	35467	Ellesborough Hill -	28 24 0	26930
Aylesbury Spire -	34 21 0	61588	Aylesbury Spire -	79 42 0	13018
Hadwell Barrow -	44 7 0		Stone Mill - -	71 54 0	
Long Crindon Mill -	84 55 0	44047	Ellesborough Hill -	26 58 0	39150
Aylesbury Spire -	47 45 0	59273	Aylesbury Spire -	116 31 0	19841
Aston Hill, Cot. House	47 20 0		Canny Hill Tree -	36 31 0	
Whitchurch -	20 43 0	78891	Ellesborough Hill -	88 26 0	26310
Long Crindon Mill -	128 7 0	35472	Aylesbury Spire -	10 17 0	4698
Hadwell Barrow -	31 10 0		Wendover New Station	81 17 0	
Hadwell Barrow -	7 12 0	23924	Aylesbury Spire - -	22 55 0	43341
Long Crindon Mill	14 20 0	12112	Wendover New Station	128 53 0	21080
Tame Steeple -	158 28 0		Lousley Row Mill -	28 12 0	
Hadwell Barrow -	73 58 0	42241	White Hill Barrow -	34 3 0	9264
Long Crindon Mill -	59 37 0	47062	Ellesborough Barrow	19 36 0	15463
White Leaf Cross -	46 25 0		Weston Turville Steeple	126 21 0	
Hadwell Barrow -	15 14 0	37493	White Hill Barrow -	17 11 0	22847
Long Crindon Mill -	94 6 0	9877	Aylesbury Spire -	61 31 0	7679
Chearsley Steeple -	70 40 0		Bearston Spire -	101 18 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distance in Feet.
	° ′	
White Hill Barrow -	97 27	13598
Bearston Steeple -	28 43	28063
Barrow above Wendover	53 50	
Wendover Barrow -	131 5	8729
Bearston Spire - -	11 1	34433
Jenkins's Farm -	37 54	
Long Crindon Mill -	49 58	17695
Tame Steeple - -	86 55	13568
Haddenham Steeple -	43 7	
Long Crindon Mill	79 46	9883
Tame Steeple - -	43 12	14207
Chearsley Steeple -	57 2	
Tame Steeple	114 36	13545
Hadwall Barrow -	22 37	32058
Haddenham Steeple -	42 47	
Aylesbury Spire -	5 37	19099
Stone Mill -	162 40	6274
Dinton Steeple -	11 43 0	
Hadwall Barrow -	20 31 0	7895
Aston Hill, Cot House	21 54 0	7419
Aston Steeple -	137 35 0	
Kensworth - -	59 9 40	17904
Leighton Spire -	31 23 20	29513
Ivinghoe Hill -	89 27 0	
Leighton Spire -	9 58	29816
Ivinghoe Hill -	88 22	5162
Ivinghoe Spire -	81 40	
Leighton Spire -	24 36 30	44328
Beacon Hill - -	119 36	21229
Tring Steeple -	35 47 30	
Quainton - -	40 3 10	21877
Cobham's Obelisk -	18 31 35	44307
Winslow Steeple -	21 25 15	
Winslow Steeple -	9 2 0	31504
Cobham's Obelisk -	20 33 0	14091
Buckingham Spire -	50 25 0	
Winslow Steeple -	4 52	11624
Buckingham Spire -	7 25	26188
Padbury Steeple -	67 43	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Winslow Steeple -	130 7	15916
Buckingham Spire -	16 15	43497
Mursley Steeple -	33 38	
Winslow Steeple -	62 46	15648
Buckingham Spire -	29 45	28039
Great Harwood Mill	87 29	
Great Harwood Mill -	13 53 0	36449
Winslow Steeple -	156 6 0	21586
Oving Steeple -	10 1 0	
Great Harwood Mill -	64 10	19477
Winslow Steeple -	67 47	18937
Padbury Steeple -	48 3	
Winslow Steeple -	15 45	26632
Padbury Steeple -	99 19 0	5074
Thornborough Steeple	64 56 0	
Buckingham Spire -	79 50 0	12290
Stow Monument -	45 25 0	16984
Tingewick Spire -	54 45 0	
Cookham Dean, Tree	37 13 0	21231
Bray Steeple - -	81 58 0	12979
Burnham Steeple -	61 9 0	
Tingewick Spire -	12 38 0	17315
Buckingham Spire -	140 34 30	5963
Maids Moreton -	26 47 30	
Long Crindon Mill -	3 34	109083
Bearston Spire -	173	58217
Kensworth - -	26	
Brill - -	11 32	75747
Whitchurch Mill -	143 29	25475
Wingrave Steeple -	24 57	
Wingrave Steeple -	25 6	43242
Whitchurch Steeple -	126 42	22888
Waddesdon Steeple -	28 11	
Brill - -	113 1 50	32132
Bicester - -	42 49	72668
Whitchurch Steeple -	23 58	
Whitchurch Steeple -	40 46	22888
Bicester - -	15 6 50	57325
Waddesdon Steeple -	124 7 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
				° ′ ″	
Bicester - -	13 29 0	11844	Aylesbury Spire	30 27 40	23416
Waddesdon Steeple -	3 27 0	45891	Quainton -	42 53 17	17443
Black Thorn Smoke Mill	163 4 0		Whitchurch Steeple	106 39 3	
Bicester - -	26 57 0	22548	Quainton -	78 31 0	21878
Waddesdon Steeple -	15 21 0	38603	Whitchurch Steeple	58 36 0	25118
Marsh Steeple -	137 42 0		Winslow Steeple	42 53 0	
Bicester - -	74 16 0	15665			
Waddesdon Steeple -	15 51 30	55178			
Stratton Audley Steeple	89 52 30				

ART. XV. *Altitudes of the Stations.*

For the purpose of obtaining the elevations of the Stations from the level of the sea, when the instrument was used in Anglesea, the height of Llanelian Mountain, above low water-mark, was found, by levelling with the portable transit, to be 582 feet 9 inches. After the measurement of the Base on Rhuddlan Marsh was finished, a similar operation gave 25 feet 5 inches for the height of the Station near Abergele, above the surface of the sea at low water.

The height of the steeple of the New Church at Milford, building in the year 1803, was 37 feet from its base. The ground on which the tower stands is 126 feet above low-water mark. This was found trigonometrically, the large circular instrument being used on the occasion. The top of the part of this steeple then built, from the surface of the sea at low water, was therefore 163 feet.

The depression of the point, denoting low water-mark, near the rocks on Redcar Sands, was carefully observed from the Station at Burleigh Moor, from which, and the computed distance, 553,2 feet, was given for the altitude of that Station.

The height of Beryl Hill, near Poulton, in Lancashire, above low water, was found trigonometrically, by means of two intermediate stations on the coast, with the large instrument, to be 128,5 feet.

The elevation of the Station at Moel Rhyddlad, above the level of the sea, derived from the measured altitude of Llanelian Mountain in Anglesea, is 465,4 feet, and that of Llwydiart Mountain is 523 feet. From these two Stations, as also from Moel Rhyddlad, the highest part of Snowdon was observed. The angles subtended by the top of Snowdon and the horizon, found in the first section, give 3561 feet for the mean height of that mountain. The altitudes, separately deduced, are 3562,2,—3559,5, and 3561,2 feet, allowing for curvature, and the same proportional part of the arcs for refraction.

The height of Garreg Mountain, deduced from Rhuddlan Marsh, is 835 feet, and its depression beneath Snowdon 2740 feet; therefore 3575 feet is the height of Snowdon above the level of the sea by this mode: hence we have a difference of 14 feet between these independent results; and if a mean be taken, we get 3568 feet for the height of that mountain above the level of the sea at low water.

If a series of triangles, extending from any one point on the coast to any other point of it, has, at each extremity, a base of altitude from one common level, accurately measured, in deducing the elevations or depressions of the Stations, each base should be applied to the Stations in its vicinity; and, towards the middle of the series, the altitudes should be computed from each base, and the mean taken for the true results. On this principle the altitudes of the Stations mentioned in this work have, for the most part, been computed.

Dundry Beacon, near Bristol, is 790 feet above the level of the sea according to our former determination. See the Philosophical Transactions for the year 1800, page 715. In computing the altitudes of the Stations made mention of in that volume, the base of altitude at Maker Heights, near Plymouth, was used, and the truth of the process verified, in some degree, by a comparison between the computed altitude of Lugshorn Corner, the eastern extremity of the base line on Sedgemoor, and the height of it as deduced by another method.

The altitudes of the Stations in South Wales, given in this article, are deduced in the following manner:

The height of Milford Church Tower, from the level of the sea at low water, is 163 feet. At the Station near St. Ann's Light House, at the mouth of Milford Haven, the top of Milford Steeple is depressed 40′ 24″ with this angle; and the computed distance between the Tower and the Station, allowing for curvature and refraction, as well as the height of the telescope of the great Theodolite from the ground, the height of the Station, above the level of the sea, appears to be 235 feet.

The Station named Highgate Mountain is 131 feet above the top of Milford Steeple. Its height, above the sea, is therefore 294 feet. The angle used in the computation is 19′ 36″, being the observed depression of Milford Steeple from the Station on Highgate Mountain. From these Stations Highgate Mountain, and St. Ann's Height, proceeding eastward, computing the differences of altitude according to the usual method, we get

The Height of,	As deduced from.	Feet,	Mean Height,
Plumstone Down	St. Ann's Heights	570	573
	Highgate Mountain	577	
Newton Down	Highgate Mountain	322	325
	St. Ann's Heights	328	
	Plumstone Down	316	
Precelly Top	Newton Down	1758	1754
	Highgate Mountain	760	
	Plumstone Down	1744	
Marros Beacon	Newton Down	510	514
	Highgate Mountain	501	
	Precelly Top	551	
Cefn Bryn	Marros Beacon	583	583
Lannon	Marros Beacon	905	912
	Cefn Bryn	918	
Margam Down	Lannon	1097	1099
	Cefn Bryn	1101	
Brenin Fawr	Precelly Top	1285	1285
New Inn Hill	Precelly Top	1181	1179
	Brenin Fawr	1173	
Talsarn	New Inn Hill	1143	1143
Capel Kynon	Talsarn	1026	1033
	New Inn Hill	1046	
Ogmoor Down	Cefn Bryn	292	292
	Margam Down	292	
Trecastle Beacon	Lannon	2596	
Llangeinor Mount.	Trecastle Beacon	1859	
The Garth	Llangeinor Mountain	981	
Mynydd Mane	Llangeinor Mountain	1568	1567
	Garth	1566	
Dundry Beacon	Mynydd Mane	775	

The altitude of Dundry Beacon, as formerly computed, was said to be 790 feet, which differs 15 feet from the above determination.

The Heighth of,	As deduced from,	Feet,	Mean Heighth,
The Cradle Mount	Mynydd Mane -	2545	
Trelleg Beacon -	The Cradle Mountain	1012	1011
	Mynydd Mane -	1010	
May Hill -	Trelleg Beacon -	966	
Malvern Hills	May Hill -	1444	
Cleve Hill -	May Hill - -	1134	
Broadway Beacon	Malvern Hill -	1086	1079
	Cleve Hill -	1072	

At page 715 of the Philosophical Transactions for the year 1800, it will be seen, that Broadway Beacon is 1086 feet above the level of the sea at low water, a conclusion drawn by applying the base of altitude at Maker Heights, near Plymouth, to the differences of altitude of the Stations between that place and Broadway Beacon. From the above result, 1079 feet appears to be the height of that Station above the surface of the sea at Milford Haven.

This article would be swelled to an unnecessary extent, were the mode pointed out by which the altitude of every Station has been computed. It will be sufficient to state that, in deriving the numbers expressing the heights, the several differentes have been mingled together, and the means always taken. The altitudes of Broadway Beacon and Dundry Beacon is just found, compared with the heights as formerly derived, will convey an idea of the degree of accuracy attending this mode of deducing the heights.

The altitudes of the Stations along the boundaries of the triangles, as given in the papers heretofore published, compared with the altitudes of the same Stations, as found on this occasion, give results nearly similar with those derived from the different means of computing the altitudes of Broadway and Dundry Beacon.

The altitudes of most of the remarkable hills in England and Wales being now determined from the Trigonometrical Survey, and the alphabetical mode of arrangement appearing to be the most advantageous for the purpose of reference, it is hoped that the following list may prove acceptable to the public.

An Alphabetical List of the Altitudes of the Stations, and several other remarkable Hills, computed from the Observations made in the course of the Trigonometrical Survey.

A.

	Feet.
Aberystwith, *Cardiganshire*	496
Agnes (St.) Beacon, *Cornwall*	621
Allington Knoll, *Kent*	329
Alnwick Moor, *Northumberland*	808
Ann's (St.) Heights, at the Mouth of Milford Haven, *Pembrokeshire*	235
Ann's (St.) Hill, *Surrey*	240
Arbury Hill, *Northamptonshire*	804
Arran Fowddy, *Merionethshire*	2955
Arrenig, *Merionethshire*	2809
Ash Beacon, *Somersetshire*	655
Ashley Heath, *Staffordshire*	803
Axedge, *Derbyshire*	1751

B.

Bagshot Heath, *Surrey*	463
Banstead, *Surrey*	576
Bar Beacon, *Staffordshire*	653
Bardon Hill, *Leicestershire*	853
Barnaby Moor, *Yorkshire*	784
Beachy Head, *Sussex*	564
Beacons of Brecknock, *Brecknockshire*	2862
Beacon Hill, *Wiltshire*	690
Beeston Castle (Top of), *Cheshire*	556

	Feet.
Belle-field Hill, *Cheshire*	401
Beryl Hill, *Lancashire*	128
Billinge Beacon, *Lancashire*	633
Bindown, *Cornwall*	658
Black Comb, *Cumberland*	1919
Black Down, *Dorsetshire*	817
Black Hambleton Down, *Yorkshire*	1246
Blackheddon, *Northumberland*	646
Bleasdale Forest, *Lancashire*	1709
Bodmin Down, *Cornwall*	645
Boulsworth Hill, *Lancashire*	1689
Bolt Head, *Devonshire*	430
Botley Hill, *Surrey*	880
Botton Head, *Yorkshire*	1485
Bow Brickhill, *Buckinghamshire*	683
Bow Fell, *Cumberland*	2911
Bow Hill, *Sussex*	702
Bradfield Point, *Yorkshire*	1246
Bradley Knoll, *Somersetshire*	973
Brandon Mount, *Durham*	875
Brenin Fawr, *Pembrokeshire*	1485
Brightling Down, *Sussex*	646
Broadway Beacon, *Glocestershire*	1086
Brown Clay Hill, *Shropshire*	1805
Brown Willy, *Cornwall*	1368
Bull Barrow, *Dorsetshire*	927
Burian (St.), *Cornwall*	415
Burleigh Moor, *Yorkshire*	553
Butser Hill, *Hampshire*	917
Butterton Hill, *Devonshire*	1203
Bwlch Mawr, *Caernarvonshire*	1673

C.

	Feet.
Cader Ferwyn, *Merionethshire* - -	2563
Cader Idris, *Merionethshire* - - -	2914
Cadon Barrow, *Cornwall* - - -	1011
Caermarthen Van, or Trecastle Beacon, *Caermarthen*	2596
Calf Hill, *Westmoreland* - - -	2188
Carn Fell, *Yorkshire* - - -	2245
Capellante, *Brecknockshire* - -	2394
Capel Kynon, *Cardiganshire* - - -	1046
Carnedd David, *Caernarvonshire* - -	3427
Carnedd Llewellyn, *Caernarvonshire* - -	3469
Carraton Hill, *Cornwall* - - -	1208
Castle Ring, *Staffordshire* - - -	715
Cawsand Beacon, *Devonshire* - - -	1792
Cefn Bryn, *Glamorganshire* - - -	583
Chanctonbury Hill, *Sussex* - - -	814
Charton Common, *Dorsetshire* - - -	582
Cheviot, *Northumberland* - - -	2658
Clifton Beacon, *Yorkshire* - - -	417
Cleave Down, *Glocestershire* - -	1134
Collier Law, *Durham* - - - -	1678
Coniston Fell - - - -	2577
Corley, *Warwickshire* - - -	521
Cradle Mountain, *Brecknockshire* - -	2545
Crif Fell, *Scotland* - - - -	1831
Cross Fell, *Cumberland* - - -	2901
Crowborough Beacon, *Sussex* - -	804
Cyrn y Brain Mountain, *Denbighshire* - -	1857

D.

	Feet.
Danby Beacon, *Yorkshire*	966
Deadman, *Cornwall*	379
Dean Hill, *Hampshire*	539
Delamere Forest, *Cheshire*	596
Dent Hill, *Cumberland*	1115
Ditchling Beacon, *Sussex*	858
Dover Castle, *Kent*	469
Dumpdon Hill, *Dorsetshire*	879
Dundon Beacon, *Somersetshire*	360
Dundry Beacon, *Somersetshire*	1668
Dunnose, *Isle of Wight*	792
Dunrigs, *Scotland*	2408
Dwggan, near Builth, *Brecknockshire*	2071

E.

Easington Heights, *Yorkshire*	681
Elden Hills, near Melrose, *Scotland*	1364
Epwell Hill, *Oxfordshire*	836

F.

Fairlight Down, *Sussex*	599
Farley Down (near Bath), *Glocestershire*	700
Firle Beacon, *Sussex*	820
Folkstone Turnpike, *Kent*	575
Frant Steeple (Top), *Sussex*	659
Furland (near Dartmouth), *Devonshire*	589

G.

	Feet.
Garreg Mountain, *Flintshire*	835
Garth (The), *Glamorganshire*	981
Gerwyn Goch, *Caernarvonshire*	1723
Go Hill, *Lancashire*	304
Goudhurst, *Kent*	497
Grasmere Fell, *Cumberland*	2756
Greenwich Observatory, *Kent*	214
Gringley on the Hill, *Yorkshire*	235
Gwaunysgaer Down, *Denbighshire*	732

H.

Haldon (Little), *Devonshire*	818
Hanger Hill (Tower), *Middlesex*	251
Hathersedge, *Derbyshire*	1377
Hawkeston Obelisk (Top of), *Shropshire*	812
Hedgehope, *Northumberland*	2347
Helvellin, *Cumberland*	3055
Hensbarrow Beacon, *Cornwall*	1034
Heswell Hill, *Cheshire*	475
Highbeech, *Essex*	750
Highclere Beacon, *Hampshire*	900
Highgate Down, *Pembrokeshire*	294
High Nook (near Dymchurch), *Kent*	28
High Pike, *Cumberland*	2101
Hind Head, *Surrey*	923
Holland Hill, *Nottinghamshire*	487
Holme Moss, *Derbyshire*	1859
Hollingborn Hill, *Kent*	616

	Feet.
Holy Head Mountain, *Anglesea*	709
Hundred Acres, *Surrey*	443
Hunsley Beacon, *Yorkshire*	531

I.

Ingleborough Hill, *Yorkshire*	2361
Inkpin Beacon, *Hampshire*	1011

K.

Karnbonellis, *Cornwall*	822
Karnminnis, *Cornwall*	805
Kensworth, *Hertfordshire*	904
Kilhope Law	2196
King's Arbour, *Middlesex*	132
Kit Hill, *Cornwall*	1067

L.

Langdon Hill, *Essex*	620
Lansdown, *Somersetshire*	813
Largo Law, *Scotland*	952
Ledstone Beacon, *Yorkshire*	278
Leith Hill, *Surrey*	993
Lillyhoe, *Hertfordshire*	664
Llandinam Mountain, *Montgomeryshire*	1898
Llanelian Mountain, *Anglesea*	582
Llanelian Mountain, *Denbighshire*	1110
Llangeinor Mountain, *Glamorganshire*	1859
Llannon, *Caermarthenshire*	912
Llwydiart Mountain, *Anglesea*	523
Lomond Hill (East), *Scotland*	1466
Lomond Hill (West), *Scotland*	1721

	Feet.
Long Mount Forest, *Shropshire*	1674
Long Mountain, *Montgomeryshire*	1330
Loosehoe, *Yorkshire*	1404
Lords Seat, *Derbyshire*	1751
Lumsdane Hill, *Scotland*	725

M.

Maker Heights, *Cornwall*	402
Malvern Hill, *Worcestershire*	1444
Marros Beacon, *Caermarthenshire*	514
Margam Down, *Glamorganshire*	1099
May Hill, *Glocestershire*	965
Moel Fammau, *Denbighshire*	1845
Moelfre Issa, *Denbighshire*	1037
Moel Rhyddlad, *Anglesea*	465
Moor Lynch (Windmill), *Somersetshire*	330
Moel Morwith, *Denbighshire*	1767
Mordington Hill, *Scotland*	641
Motteston Down, *Hampshire*	698
Mow Copt, *Cheshire*	1091
Muzzle Hill (near Brill), *Buckinghamshire*	744

N.

Nettlebed (Windmill), *Oxfordshire*	820
New Inn Hill, *Caermarthenshire*	1168
Newton Down, *Pembrokeshire*	322
Nine Barrow Down, *Dorsetshire*	642
Nine Standards, *Westmoreland*	2136
North Berule, *Isle of Man*	1804
Norwood, *Surrey*	389
Nuffield Common, *Berkshire*	757

O.

	Feet.
Ogmoor Down, *Glamorganshire*	292
Orpit Heights, *Derbyshire*	980

P.

Paddlesworth, *Kent*	642
Pendle Hill, *Lancashire*	1803
Pengarn, *Merionethshire*	1510
Penmaen Mawr, *Caernarvonshire*	1540
Pennigant Hill, *Yorkshire*	2270
Pertinney, *Cornwall*	689
Pillar, *Cumberland*	2893
Pilsdon Hill, *Dorsetshire*	934
Plumstone Down, *Pembrokeshire*	573
Plynlimmon Mountain, *Cardiganshire*	2463
Pontop Pike, *Durham*	1018
Portsdown Hill, *Hampshire*	447
Precelly Top, *Pembrokeshire*	1754

Q.

Queensberry Hill, *Scotland*	2259

R.

Radnor Forest, *Radnorshire*	2163
Rhiw Mountain, *Caernarvonshire*	1013
Rippin Tor (Dartmoor), *Devonshire*	1549
Rivel Mountain, *Caernarvonshire*	1866
Rivington Hill, *Lancashire*	1545
Rodney's Pillar (Base of), *Montgomeryshire*	1199
Rooks Hill, *Sussex*	702

	Feet
Roseberry Topping, *Yorkshire*	1022
Ruckinge, *Sussex*	37
Rufflaw, *Northumberland*	595
Rumbles Moor, *Yorkshire*	1308

S.

Saddleback, *Cumberland*	2787
Sarum (Old), *Wiltshire*	339
Sayrs Law, *Scotland*	1739
Sca Fell (Low Point), *Cumberland*	3092
Sca Fell (High Point), *Cumberland*	3166
Scilly Bank, *Cumberland*	500
Scutchamfly Beacon, *Berkshire*	853
Sennen, *Cornwall*	387
Sherwood Forest, *Nottinghamshire*	600
Shooters Hill, *Kent*	446
Shotover Hill, *Oxfordshire*	599
Shunnor Fell, *Yorkshire*	2329
Simonside Hill, *Northumberland*	1407
Skiddaw, *Cumberland*	3022
Snea Fell, *Isle of Man*	2004
Snowdon, *Caernarvonshire*	3571
Soutra Hill, *Scotland*	1716
Staincross Heights, *Yorkshire*	514
Stathern Point, *Leicestershire*	490
Stockbridge Hill, *Hampshire*	620
St. Stephen's Down, *Cornwall*	605
Stow Hill, *Herefordshire*	1417
Stow on the Wold, *Glocestershire*	883
Swingfield Steeple (Top), *Kent*	530
Symmonds Hill, *Glocestershire*	795

T.

	Feet.
Talsarn, *Cardiganshire* - - -	1143
Tenterden Steeple, *Kent* - - -	322
Thorney Down, *Somersetshire* - -	610
Tregarron Down, *Cardiganshire* - -	1747
Trelleg Beacon, *Monmouthshire* - -	1011
Trevose Head, *Cornwall* - - -	274

W.

Water Crag, *Yorkshire* - - -	2186
Weaver Hill, *Staffordshire* - -	1154
Wendover Down, *Buckinghamshire* - - -	905
Westbury Down, *Wiltshire* - - -	775
Whernside (in Ingleton Fells), *Yorkshire* -	2384
Whernside (in Kettlewell Dale), *Yorkshire* -	2263
Whin Fell, *Scotland* - - -	2241
White Horse Hill, *Berkshire* - - -	893
Whiteham Hill, *Berkshire* - - -	576
Wilton Beacon, *Yorkshire* - - -	809
Wingreen Hill, *Dorsetshire* - -	941
Wisp Hill, *Scotland* - - -	1940
Wittle Hill, *Lancashire* - -	1614
Wordeslow Hill, *Durham* - -	632
Wrekin, *Shropshire* - - -	1320

Y.

Ynaliog Mountain, *Caernarvonshire* - -	584

SECTION FIFTH.

ART. 1. *Observations made at Delamere Forest to determine the Zenith Distance of β Draconis.*

Point on the Limb 0° 45′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above	
May 30	W.	9 30,1	8 7,07	0 45	1 23,03	0 46 22,37	29,37	49	5[illegible]
June 4	W.	15 14,7	13 51,73		21,97	21,10	28,96	48	49
5	E.	6 16,4	7 42,0		25,60	24,74	29,17	51	51
6	W.	10 22,0	9 0,95		21,05	20,18	29,	51,5	53
7	W.	11 46,8	10 25,65		21,15	20,28	29,58	51,5	54,5
9	E.	6 48,3	8 14,53		25,23	24,37	29,67	62	63

Observed Zenith Distance of γ Draconis.

Point on the Limb 1° 40′ South.

May 30	W.	10 14,2	7 49,82	1 40	2 23,38	1 42 21,61	29,37	49,5	50
June 2	E.	4 45,3	7 14,10		27,80	26,04	29,67	51	51,5
4	W.	9 49,1	7 29,0		20,10	18,33	28,96	48	49
5	E.	4 39,4	7 5,0		24,60	22,84	29,17	51,5	51
7	W.	13 6,6	10 44,73		20,87	19,01	29,55	51,5	51,5
9	E.	5 20,9	7 44,68		23,78	22,01	29,67	62	63

Observed Zenith Distance of 45 d Draconis.

Point on the Limb 3° 45′ North.

June 2	E.	2 37,0	7 9,57	3 45	4 31,57	3 40 51,98	29,64	50,5	51,5
4	W.	6 45,6	7 25,7	40	0 39,10	39,16	29,0	47,5	48
7	W.	8 12,6	8 50,48		37,88	37,94	29,56	51	52
9	E.	3 4,5	7 31,22	45	4 26,70	36,84	29,67	62	63

Observed Zenith Distance of 46 c Draconis.

Point on the Limb 2° 10′ North.

June 2	E. E.	4 22,5	7 5,05	2 10	2 41,55	2 7 20,28	29,64	50,5	51,5
4	W. W.	9 50,1	7 13,63		36,47	25,27	29,0	47,0	48
7	W. W.	11 16,8	8 39,61		36,19	25,50	29,56	51	52
9	E. E.	4 36,6	7 11,95		34,35	27,40	29,66	61,5	62,5

Observed Zenith Distance of 51 Draconis.

Point on the Limb 0° 5′ South.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
June 7	W.	15 44,0	13 34,03	0 5	2 9,97	0 7 8,18	29,56	51,5	52,5
9	E.	4 56,5	7 11,03		13,53	11,75	29,66	61	62

Observed Zenith Distance of μ Draconis.

Point on the Limb 1° 30′ North.

June 2	E.	2 39,2	7 20,47	1 35	4 40,27	1 30 23,27	29,67	52,5	52
4	W.	7 32,6	7 57,95	30	0 25,35	25,39	28,97	48	48,5
6	W.	8 14,0	8 39,97		25,97	26,01	29,33	50,5	51,5
7	E.	8 43,5	8 18,82		24,68	24,72	29,68	62	63,5

Observed Zenith Distance of 17 Draconis.

Point on the Limb 0° 10′ North.

May 30	W.	12 32,7	8 15,13	0 10	4 17,57	0 5 46,03	29,37	49,5	51,5
June 4	E.	8 34,6	7 48,95	5	0 44,65	44,72	28,97	48	48,5
6	W.	7 24,2	8 13,52		48,32	48,40	29,33	50,5	51,5

Observed Zenith Distance of 12 ι Draconis.

Point on the Limb 6° 25 North.

May 31	E.	9 12,0	8 44,44	6 25	0 26,56	6 25 26,61	29,44	49	50
June 1	W	7 38,0	8 9,55		30,05	30,60	29,54	50,5	50,5
4	W.	6 46,1	7 21,8		34,70	34,76	29,0	48	48,5
5	E.	8 45,5	8 12,4		33,10	33,15	29,17	54,5	52
6	W.	7 49,4	8 26,3		35,90	35,96	29,33	51	51,5
7	E.	9 39,6	9 9,7		29,90	29,95	29,69	67,5	68,5

Observed Zenith Distance of 53 Draconis.

Point on the Limb 3° 20′ North.

June 2	E.	6 52,6	7 25,05	3 20	0 31,45	3 19 28,50	29,64	50,5	51,5
4	W	7 56,3	6 31,57		24,73	35,23	29,0	46,5	48
7	W.	14 42,0	13 13,48		28,52	31,43	29,58	51	52
9	E.	5 52,6	7 25,33		31,73	31,88	29,66	61	62

Observed Zenith Distance of 1 κ Cygni.

Point on the Limb 0° 15′ South.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.			Above.	Below.
June 2	E.	9 26,6	6 52,71	0 15	2 32,89	12 28,46	29,63	50	52
4	W.	5 22,1	7 57,71		35,60	26,14	29,0	46,5	48
7	W.	10 53,5	13 29,75		35,25	26,49	29,56	51,5	52,5
9	E.	4 54,9	7 26,2		30,30	31,45	29,66	61	62

Observed Zenith Distance of 10 ι Cygni.

Point on the Limb 1° 55′ South.

June 2	E	4 41,0	8 50,18	1 50	4 10,08	1 54 6,49	29,63	50	52
4	W.	7 31,4	8 28,6	55	0 66,20	3,71	29,0	46,5	48
7	W.	17 57,0	13 51,3	50	4 5,70	2,10	29,56	51,5	52,5
9	E.	7 58,2	7 4,77	55	0 53,43	6,98	29,66	61	62

Observed Zenith Distance of γ Ursæ.

Point on the Limb 1° 30′ North.

May 31	E.	9 24,8	6 20,87	1 30	3 3,93	1 33 1,23	29,45	55	58
June 1	W.	5 2,5	8 12,63		10,13	7,44	29,45	59,5	59,5
6	E.	11 22,8	8 16,42		6,38	3,68	29,26	59	58,5
9	W.	10 26,8	13 36,0		9,20	6,51	29,7	79	73,5

Observed Zenith Distance of η Ursae.

Point on the Limb 2° 55′ South.

May 31	E.	7 13,5	28,52	2 55	1 14,98	56 14,10	29,44	50,5	50,5
June 1	W	9 21,3	13,62		7,68	6,79	29,54	50,5	52,5
2	E.	1 37,1	7 57,66	50	6 20,56	15,19	29,68	52	54
3	W.	8 42,5	7 35,15	55	1 7,35	6,46	29,53	53	53,5
4	W.	14 31,9	8 20,32	50	6 11,58	6,19	28,93	48,5	49,5
6	E.	7 18,1	8 33,38	55	1 15,28	14,34	29,32	53	54,5
7	W.	11 2,9	9 51,33		9,57	8,68	29,58	55	57
9	E.	8 8,0	9 22,95		14,95	14,07	29,69	67	68

Observed Zenith Distance of ζ Ursæ.

Point on the Limb 2° 45′ North.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.	Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′ rev. div.	° ′ ″		Above.	Below.
May 31	E.	4 24,6	6 22,23	2 45 1 56,63	2 43 4,18	29,44	50	53
June 1	W.	10 5,6	8 15,62	48,98	11,43	29,54	59,5	59,5
2	E.	1 44,7	3 41,05	55,35	5,46	29,68	52	54
3	E.	6 26,0	8 23,45	56,45	4,36	29,53	53	53,5
4	W.	10 11,2	8 20,57	49,63	11,15	28,93	50	50,5
5	W.	9 0,9	7 13,07	46,83	14,00	29,17	51,5	52
6	E.	6 32,2	8 28,35	55,15	5,26	29,32	53	54,5
7	W.	11 44,7	9 53,72	49,98	10,83	29,58	55	57
9	E.	7 10,0	9 4,9	53,90	6,91	29,69	67	68

Observed Zenith Distance of 85 ι Herculis.

Point on the Limb 7° 5′ South.

June 4	W.	15 12,8	13 50,74	7 5 1 21,06	7 6 20,19	28,96	48	49
5	E.	5 47 0	7 15,0	27,00	26,14	29,17	51	51
9	E.	6 37,6	8 4,53	25,93	25,07	25,93	62	63

Observed Zenith Distance of υ Herculis.

Point on the Limb 6° 35′ South.

May 30	W.	10 9,0	6 39,48	35 28,52	6 38 25,86	29,36	49,5	51,5
June 2	E.	4 32,7	3,5	29,80	27,14	29,67	49,5	51,5
4	W.	11 4,4	35,98	27,42	24,76	29,0	52	54
5	E.	4 25,9	54,97	31,07	28,41	29,17	48	48,5
6	W.	11 54,0	23,52	24,48	21,88	29,33	51,5	52
7	E.	6 36 4	9,38	31,98	29,39	29,58	50,5	51,5
9	E.	5 26,8	8 56,45	29,65	26,99	29,68	62	63,5

Observed Zenith Distance of τ Herculis.

Point on the Limb 6° 25′ South.

May 30	W.	9 11,3	7 44,9	25,40	6 26 24,54	29,36	49,5	51,5
June 4	E.	6 22,8	7 55,22	32,42	31,57	28,97	48,	48,5
6	W.	9 51,4	8 28,05	23,35	22,49	29,33	50,5	50,5

Observations made at Burleigh Moor, to determine the Zenith Distance of β Draconis.

Point on the Limb 2° 5′ South.

Day of the Month.	Face of the Arch. W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 6	W.	14 32,9	12 20,17	2 5	2 12,73	2 7 10,95	29,25	51	51
7	E.	8 13,4	10 29,25		15,85	14,07	28,95	54,5	54,5
9	E.	5 40,5	8 1,93		20,43	18,66	29,55	59	57,5
10	E.	5 58,0	8 12,20		13,20	11,42	29,59	65	62
11	W.	9 56,6	7 49,6		7,00	5,21	29,29	55	56,5
16	W.	9 47,2	7 39,40		7,80	5,29	29,1	51,5	51,5
18	W.	10 24,5	8 18,08		6,42	4,63	29,25	59	56
19	E.	5 47,1	8 3,91		15,81	14,03	29,35	56	56,5

Observed Zenith Distance of γ Draconis.

Point on th Limb 3° 5′ South.

July 6	W.	9 11,5	11 14,9	3 5	2 3,40	3 2 46,40	29,25	51	51
7	E.	11 19,9	10 32,47		1 46,43	3 14,47	28,95	54,5	54,5
10	E.	10 16,0	8 25,8		49,20	11,22	29,59	65	62,5
11	W.	5 47,3	7 43,92		55,62	5,18	29,29	56,5	55
16	W.	5 7,5	7 4,24		55,74	5,07	29,1	51,5	51,5
18	W.	6 1,5	7 55,13		53,63	6,18	29,25	59	56
19	E.	9 36,6	7 46,61		48,99	11,83	29,36	56,5	55

Observed Zenith Distance of 45 d Draconis.

Point on the Limb 2° 20′ North.

July 7	E.	10 34,9	10 51,25	2 20	16,55	19 43,42	28,95	54,5	54,5
9	E.	7 47,0	8 2,91		14,91	45,07	29,53	57	54
10	E.	8 31,1	8 43,10		12,0	47,98	29,59	65	62
16	W.	7 9,5	7 3,26		6,24	53,75	29,0	50	51

Observed Zenith Distance of 46 c Draconis.

Point on the Limb 0° 45′ North.

July 7	E.	12 34,0	11 2,80	0 45	1 31,20	0 46 30,25	28,95	54,5	54,5
9	E.	9 26,2	7 52,21		32,99	32,14	29,53	57	54
10	E.	9 50,9	8 16,26		34,64	33,79	29,59	64,5	62
11	W.	5 16,1	6 55,57		39,47	39,63	29,25	56,5	56,5
16	W.	5 23,0	7 6,40		42,40	41,57	29,0	50	51

Observed Zenith Distance of 51 *Draconis.*

Point on the Limb 1° 30′ South.

Day of the Month.	Face of the Arch W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 9	E.	10 0,0	7 58,27	1 30	2 0,73	1 28 1,07	29,53	57	54
10	E.	10 25,0	8 22,50		2,50	0,70	29,59	65	52
11	W.	5 13,0	7 17,55		4,55	27 59,30	29,25	55,5	55
16	W.	4 52,5	7 1,52		8,02	53,77	29,2	51	51,5
19	E.	9 44,4	7 40,50		3,90	57,90	29,36	56	56

Observed Zenith Distance of 17 *Draconis.*

Point on the Limb 1° 15′ South.

July 4	W.	11 32,5	11 29,9	1 15	0 2,60	1 15 2,61			
6	W.	11 24,5	11 20,59		3,91	3,92	29,25	51,5	51
7	E.	10 15,5	10 23,75		8,25	8,26	28,95	54,5	54,5
9	E.	8 27,8	8 34,73		6,93	6,96	29,52	61	58
10	E.	8 1,0	8 8,35		7,35	7,36	29,32	66,5	66,5
11	W.	8 20,6	8 20,48		0,12	0,12	29,29	59	56
12	E.	7 50,1	7 56,22		6,12	6,13	29,38	60	59
16	W.	7 33,1	7 35,57		2,47	2,47	29,0	54	54

Observed Zenith Distance of 12 *Draconis.*

Point on the Limb 5° 5′ North.

July 9	E.	8 27,5	8 51,0	5 5	0 23,50	5 4 36,46	29,52	61	58
10	E.	8 51,5	9 2,8		10,30	49,68	29,32	66,5	66,5
16	W.	7 29,6	7 12,45		16,15	43,82	29,35	56	56,5

Observed Zenith Distance of 53 *Draconis.*

Point on the Limb 2° 0′ North.

July 7	E.	13 35,4	10 51,73	1 55	+2 42,67	1 57 40,93	28,95	54,5	54,5
9	E.	5 58,9	8 26,45	2 0	—2 26,55	35,21	29,53	57	54
10	E.	6 28,2	8 47,11		18,91	42,86	29,59	65	62
11	W.	9 36,5	7 19,0		17,50	42,27	29,25	55,5	55
16	W.	9 9,0	6 54,47		13,53	48,25	29,2	51	51

Observed Zenith Distance of μ Draconis.

Point on the Limb 0° 10′ North.

Day of the Month.	Face of the Arch. W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 7	E.	13 55,5	9 20,72	0 5	4 34,78	0 9 30,23	28,95	54,5	54,5
9	E.	7 57,5	8 27,22		28,72	29,31	29,52	61,5	58
10	E.	7 48,9	8 17,87		27,97	31,98	29,59	64,5	62
11	W.	8 26,4	8 5,53		20,87	39,10	29,29	59	56
16	W.	7 32,5	7 12,75		19,75	40,22	29,1	52	52

Observed Zenith Distance of 1 κ Cygni.

Point on the Limb 1° 35′ South.

July 9	E.	10 16,8	8 34,17	1 35	1 41,63	1 33 19,20	29,53	57	54,5
10	E.	10 39,4	8 57,13		41,27	18,56	29,59	65	62,5
11	W.	6 7,5	7 53,20		45,70	15,13	29,25	55,5	55
16	W.	5 22,4	7 13,0		49,60	11,32	29,20	51	51

Observed Zenith Distance of 10 ι Cygni.

Point on the Limb 3° 15′ South.

July 6	W.	10 25,8	10 33,83	3 15	0 8,03	3 14 51,96	29,26	49,5	49,5
9	E.	8 22,4	8 18,50		3,90	56,09	29,53	57	54
10	E.	9 28,3	9 21,41		6,89	53,10	29,59	65	62
11	W.	7 40,2	7 48,50		8,30	51,70	29,25	55,5	55,5
16	W.	6 49,4	7 3,43		13,03	46,94	29,20	51	51

Observed Zenith Distance of α Persei.

Point on the Limb 5° 25′ South.

July 14	W.	7 31,5	7 49,13	5 25	0 17,63	5 24 42,34	29,0	65	62
15	W.	6 53,0	7 12,55		18,55	41,42	29,20	64	60
19	E.	6 24,6	6 9,55		15,05	44,92	29,31	64,5	62,5

Observed Zenith Distance of 27 γ Cassiopeia.

Point on the Limb 5° 5′ North.

Day of the Month.	Face of the Arch W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.		rev. div.	° ′ ″		Above.	Below.
July 15	W.	6 39,8	7 9,3	5 5	3 28,50	0 5 28,50	29,16	58	55
17	W.	7 38,8	7 11,48		23,32	27,36	29,04	53	53,5
19	W.	5 10,1	5 44,77		34,67	34,73	29,86	54	55,5

Observed Zenith Distance of 24 η Cassiopeia.

Point on the Limb 2° 15′ North.

July 15	W.	9 42,3	7 24,43	2 15	2 17,87	2 12 43,90	29,16	58	55
17	W.	5 16,0	7 33,91		17,90	43,86	29,06	53	53,5
19	W.	8 27,4	6 5,17		22,83	39,45	29,26	54	55,5

ART. II. *Reduction of the Observations made on certain Stars at Delamere Forest, in Cheshire, and Burleigh Moor, near the Tees Mouth, in Yorkshire, from the respective Days on which they were made, to the first of January* 1806; *the Equations being those for Aberration, Nutation, semi-annual solar Equation, Precession, and Refraction, with the Zenith Distances of the Stars deduced therefrom.*

Reduction of the Observations made at Delamere Forest.

γ Draconis, South.

Face of the Limb West.		Face of the Limb East.			
May 30—1° 2′ 14″,75		June 2—1° 42′ 20″,07		Zenith dist. 1° 42′ 16″,42 (refr. &c.)	1° 42′ 18″,07
June 4	13,08	5	17,79	+1,672 Mean refr.	
7	14,60	9	18,25	—0,034 Temperature.	
Mean 1 42	14,14	Mean 1 42	18,70	+0,031 Expansion of axis.	
				1 42	18,09

β Draconis, South.

May 30—0° 46′ 15″,84	June 5—0° 46′ 20″,09	Zenith dist. 0° 46′ 18″,3 (refr. &c.)	0° 46′ 19″,036.
4 16,17	9 21,02		
6 15,89			
7 16,30			
Mean 0 46 16,05	Mean 0 46 20.55		

45 *d Draconis, North.*

June 4—3° 40′ 44″,28	June 2—3° 40′ 38″,72	Zenith dist. 3° 40′ 40″,9 (refr. &c.)	3° 40′ 44″,78.
7 41,36	9 39,27		
Mean 3 40 42,82	Mean 3 40 38,99		

46 *c Draconis, North.*

June 4—2° 7′ 30″,78	June 2—2° 7′ 36″,10	Zenith dist. 2° 7′ 29″,27 (refr. &c.)	2° 7′ 31″,34.
7 29,46	9 30,74		
Mean 2 7 30,12	Mean 2 7 28,42		

51 *Draconis, South.*

June 7—0° 7′ 4″,33	June 9—0° 7′ 8″,56	Zenith dist. 0° 7′ 6″,4 (refr. &c.)	0° 7′ 6″,48.

μ *Draconis North.*

Face of the Limb West.		Face of the Limb East.		
June 4	1° 30′ 23″,70	June 2	1° 30′ 22″,30	Zenith dist. 1° 30′ 28″,83 (refr. &c.) 1° 30′ 24″,29.
6	23,75	9	21,60	
Mean 1	30 23,72	Mean 1	30 21,95	

17 *Draconis, North.*

May 30	0° 5′ 52″,32	June 4	0° 5 49″,56	Zenith dist. 0° 5′ 50″,98 (refr. &c.) 0° 5′ 51″,08.
6	52,49			
Mean 0	5 52,40			

1 κ *Cygni, South.*

June 4	0° 12′ 21″,62	June 2	0° 12′ 23″,38	Zenith dist. 0° 12′ 24″,32 (refr. &c.) 0° 12′ 24″,51.
7	23,79	9	28,53	
Mean 0	12 22,7	Mean 0	12 25,95	

10 ι *Cygni, North.*

June 4	1° 53′ 59″,12	June 2	1° 54′ 1″,16	Zenith dist. 1° 54′ 0″,55 (refr. &c.) 1° 54′ 2″,216.
7	58,17	9	3,95	
Mean 1	53 58,64	Mean 1	54 2,56	

γ *Ursæ, North.*

June 1	1° 33′ 8″,25	May 31	1° 33′ 2″,18	Zenith dist. 1° 33′ 5″,42 (refr. &c.) 1° 33′ 6″ 93.
9	6,99	6	4,28	
Mean 1	33 7,62	Mean 1	33 3,23	

79 ζ *Ursæ, North.*

June 1	2° 43′ 13″,63	May 31	2° 43′ 6″,76	Zenith dist. 2° 43′ 10″,51 (refr. &c.) 2° 43′ 13″34.
4	13,18	June 2	7,83	
5	15,91	4	6,52	
7	12,35	6	6,98	
		9	8,21	
Mean 2	43 13,77	Mean 2	43 7,25	

η *Ursæ, South.*

June 1	2° 56′ 2″,85	May 31	2° 56′ 9″,24	Zenith dist. 2° 56′ 7″,13 (refr. &c.) 2° 56′ 9″,96.
3	2,72	June 2	11,33	
4	2,71	6	11,24	
7	5,78	9	11,23	
Mean 2	56 3,51	Mean 2	56 10,76	

85 ι *Herculis.*

June 4	7° 6′ 15″,58	June 5	7° 6′ 23″,09	Zenith dist. 7° 6′ 19″,03 (refr. &c.) 7° 6′ 25″,89.
		9	21,90	
		Mean 7	6 22,49	

υ *Herculis, South.*

Face of the Limb West.				Face of the Limb East.				
May	30—	6° 38′	16″,75	June	2—	6° 38′	19″,01	Zenith dist. 6° 38′ 18″,74 (refr. &c.) 6° 38′ 25″,14.
June	4		17,46		5		21,36	
	6		15,03		7		22,95	
					9		21,05	
Mean		6 38	16,41	Mean		6 38	21,09	

22 τ *Herculis.*

May	30—	6° 26′	18″,35	June	4—	6° 26′	26″,84.	Zenith dist. 6° 26′ 22,″56 (refr. &c.) 6° 26′ 28″,78.
			18,23					
Mean		6 26	18,29					

Reduction of the Observations made at Burleigh Moor.

γ *Draconis.*

July	11—	3° 3′	11″,71	July	7—	3° 3′	19″,83	Zenith dist. 3° 3′ 16″,03 (refr. &c) 3° 3′ 19″,09.
	16		12,99		10		17,13	
	18		14,74		19		19,82	
Mean		3 3	13,15	Mean		3 3	18,92	

β *Draconis.*

July	6—	2° 7′	16″,14	July	7—	2° 7′	19″,55	Zenith dist. 2° 7′ 17″37 (refr. &c.) 2° 7′ 18″,5.
	11		11,79		9		24,69	
	16		13,17		10		17,20	
	18		13,04		19		22,08	
Mean		2 7	13,71	Mean		2 7	20,88	

45 *d Draconis.*

July	16—	2° 19′	44″,78	July	7—	2° 19′	37″,45	Zenith dist. 2° 19′ 41″,71 (refr. &c.) 2° 19′43″,96.
					9		38,47	
					10		40,03	
				Mean		2 19	38,65	

46 *c Draconis.*

July	11—	0° 46′	32″,20	July	7—	0° 46′	24,22	Zenith dist. 0° 46′ 28″,9 (refr. &c.) 0° 46′ 29″,69.
	16		32,44		9		25,45	
					10		26,78	
Mean		0 46	32,32	Mean		0 46	25,48	

51 *Draconis, South.*

July	11—	1° 28′	4″,881	July	9—	1° 28′	7″,83	Zenith dist. 1° 28′ 5″,80 (refr. &c.) 1° 28′ 7″,15.
	16		3,12		10		7,83	
					19		7,17	
Mean		1 28	4,00	Mean		1 28	7,61	

17 *Draconis, South.*

Face of the Limb West.		Face of the Limb East.		
July 4	1° 15′ 6″,24	July 7	1° 15′ 12″,91	Zenith dist. 1° 15′ 9″,79 (refr. &c.) 1° 15′ 11″,04.
6	7,33	9	12,08	
11	5,79	10	12,79	
16	9,24	12	11,96	
Mean 4	15 7,15	Mean 1	15 12,44	

23 *μ* Draconis.

July 11	0° 9′ 29″,31		0° 9 21,89	Zenith dist. 0° 9′ 25″,53 (refr. &c.) 0° 9′ 25″,48.
16	28,66		21,47	
Mean 0	9 28,98	Mean 0	9 21,68	

1 *κ Cygni.*

July 11	1° 33 26″,52	July 9	1° 33′ 26,50	Zenith dist. 1° 33 24,31 (refr. &c.) 1° 33′ 25″,87.
16	21,05	10	26,21	
Mean 1	33 22,28	Mean 1	33 26,36	

ART III. *Amplitudes of the Celestial Arc comprehended by the Stations on Dunnose and Burleigh Moor, near the Mouth of the Tees.*

THE several observations in the preceding article, are reduced to the first day of January, 1806: Those made on Dunnose in 1802, are reduced to the beginning of the same year, and must be brought up to the same period. For the Zenith Distances of those Stars at that Station, see the Account of the Measurement of an Arc of the Meridian, p. 90.

β. Draconis	-	1 49 53,38	North from the Zenith.
γ, ———	-	0 53 53,83	N.
45 *d.* ———	-	6 16 58,18	N.
46 *c.* ———	-	4 43 42,44	N.

51	Draconis	-	2° 29′ 4,″69 N.
17	———	-	2 42 3,18 N.
μ	———	-	4 6 38,97 N.
1 κ	Cygni	-	2 23 47,81 N.
10 ι	———	-	0 42 9,64 N.

At Burleigh Moor the Zenith distances of the same stars for the same period are

β	Draconis	-	2° 7′ 18″,51 South.
γ	———	-	3 3 19,09 S.
45 *d.*	———	-	2 19 43,96 North.
46 *c.*	———	-	0 46 29,69 N.
51	———	-	1 28 7,15 S.
17	———	-	1 15 11,04 S.
μ	———	-	0 9 25,48 N.
1 κ	Cygni	-	1 33 25,87 S.

The amplitudes of the arc resulting from these determinations are as follow: viz.

By β	Draconis	-	3° 57′ 11″,89
γ	———	-	12,92
45 *d.*	———	-	14,22
46 *c.*	———	-	12,75
51	———	-	11,84
17	———	-	14,22
μ	———	-	13,49
1 κ	Cygni	-	13,68

The mean of which gives 3° 57′ 13″,1, being the difference of latitude between the parallels of Dunnose and Burleigh Moor.

ART. IV. *Amplitudes of the Celestial Arc comprehended by the Stations Dunnose and Delamere Forest.*

At Delamere Forest, the Zenith Distances of certain principal Stars are as follows: viz.

			° ′ ″	
γ	Draconis	-	1 42 18,07	South.
β	———	-	0 46 19,04	S.
45 *d.*	———	-	3 40 44,78	North.
46 *c.*	———	-	2 7 31,34	N.
51	———	-	0 7 6,48	S.
17	———	-	0 5 51,08	N.
1 κ	Cygni	-	0 12 25,51	S.
10 ι	———	-	1 54 2,22	S.

These Zenith distances, respectively applied to the Zenith distances of the same stars observed at Dunnose, give the several amplitudes as follow:

			° ′ ″
By β	Draconis	-	2 36 12,42
γ	———	-	11,9
45 *d.*	———	-	13,4
46 *c.*	———	-	11,1
51	———	-	11,17
17	———	-	12,1
1 κ	Cygni	-	13,32
10 ι	———	-	11,86

The mean of which gives 2° 36′ 12″,2 being the difference in latitude between Dunnose and the Station on Delamere Forest.

ART. V. *Calculation of the Meridional Distance between Dunnose and Burleigh Moor.*

At Burleigh Moor, on the 28th of June, in the evening, the pole star, when at its greatest apparent western elongation from the meridian, was observed, and the angle taken between it and the staff at Redcar Sands. This angle was found to be 4° 32′ 17″.

In like manner, when the star, on the morning of the 29th, was observed when at its greatest apparent eastern elongation from the meridian, the angle between the star and staff was found to be 10° 30′ 14″, the mean of the two results, gives 7° 31′ 15″5 for the true bearing of the staff from the meridian of Burleigh Moor.

The angle between the station on Easington Heights, and the staff at Redcar, was found to be 100° 31′ 37″,5, subtracting from this angle the bearing of the staff from the meridian, we get 86° 59′ 38″ for the angle between Easington Station and the meridian of Burleigh Moor in a South direction.

The bearings of the sides of the Triangles, used in finding the meridional distance from Burleigh Moor to Dunnose, from the several parallels to the meridian of Burleigh Moor, will be as follow:

	°	′	″	
Botton Head from Burleigh Moor -	9	7	2	SW.
Hemingbrough Spire from Botton Head	5	35	4,5	SE.
Clifton Beacon from Hemingbrough Spire	24	50	42	SW.
Hathersage from Clifton Beacon -	62	0	3	SW.
Orpit from Hathersage -	5	18	6	SE.
Bardon Hill from Orpit - -	21	13	23	SE.
Arbury Hill from Bardon Hill -	7	35	11	SE.

	°	′	″	
Brill from Arbury Hill - -	12	22	34	S. E.
Whitehorse Hill from Brill - -	50	24	0	S. W.
Highclere from Whitehorse Hill -	27	39	53,5	S. E.
Butser Hill from Highclere - -	34	12	30,5	S. E.
Dunnose from Butser Hill - -	21	6	26	S. W.

These bearings give the distances from the meridian of and perpendicular at Burleigh Moor as follows :

	Feet.		Feet.	
Botton Head from the meridian	9658,8	W.	60186,4	from the
Hemingbrough Spire -	13145	E.	293404,2	perpen.
Clifton Beacon -	39203,2	W.	406462,9	
Hathersage -	120635,6	W.	449759,8	
Orpit - -	111242,2	W.	550982,9	
Bardon Hill -	62048,2	W.	677661,5	
Arbury Hill -	38228,2	W.	856508,2	
Brill - -	6822,8	W.	999633,1	
Whitehorse Hill - -	119782,4	W.	1093081,4	
Highclere - -	69376,7	W.	1189233,3	
Butser Hill - -	13847	E.	1311654,3	
Dunnose - -	36778	W.	1442802,9	

In the account of the measurement of an arc of the meridian, page 55, the distance of Clifton Beacon (Beacon Hill) from the perpendicular to the meridian of Dunnose, is shewn to be 1036334,4 feet, and its distance from the same meridian, is stated in the following page as being 4770 feet. If the calculation there specified, be carried on from Clifton Beacon to Burleigh Moor, through the same triangles as used in determining the distance from Burleigh Moor to the point, where a line from

Dunnose parallel to the perpendicular, cuts the meridian of that station, we shall have the following bearings for computation, viz.

	°	′	″	
Clifton Beacon from Hathersage	61	52	17	N. E.
Hemingbrough Spire from Clifton Beacon	24	42	56	N. E.
Botton Head from Hemingbrough Spire	5	42	50,5	N. W.
Burleigh Moor from Botton Head -	8	59	15	N. E.

Assuming the distance of Clifton Beacon from the meridian of Dunnose as above mentioned, to be 4770 feet, and from the perpendicular at that station as 1036334,4 feet, we shall get

Hemingbrough Spire from the Meridian	47322,7	E.	1149511,1 from the perpendicular.
Botton Head - - -	23992,3	E.	1382676,6
And Burleigh Moor - -	33514,8	E.	1442884,7

Now the latitude of Dunnose is $\frac{7}{17}''$ greater than the latitude of the point, where the parallel from that station, cuts the meridian of Burleigh Moor, $\frac{7}{17}''$. of a second in the heavens, corresponds to 42 feet on the surface of the earth; hence 1442802 9+42=1442845 feet may be taken for the distance between the parallels of Burleigh Moor and Dunnose, as derived from the first mode of calculation.

In like manner, the latitude of Burleigh Moor being $\frac{11}{30}''$ less than the latitude of the point, where a line from that station parallel to the perpendicular at Dunnose, cuts its meridian, we shall have 1442884,7—37,4=1442847,3 feet, for the distance between the parallels, as determined by carrying up the calculations with the direction of the meridian observed at Dunnose. See the 1st volume, page 291.—These results differ something more than two feet, and, at a mean, may be taken as 1442846 feet, to which adding 6,5 (the distance of the station from the point where the sector was set up at Dunnose), we get 1442852,5 feet for the true meridional distance.

In the account of the measurement of an arc of the meridian, the difference of latitude between the parallels of Dunnose and Clifton in Yorkshire, is shewn to be 2° 50′ 23″,38 (see page 104 of that Account), the terrestrial subtence of the arc being 1036337 feet. See page 107 of the same Account.

If the former operation, as well as the present one, be supposed correct, their results must be consistent, unless we suppose the plumb line of the sector at Burleigh Moor, to have been affected by attraction, arising from the earth's unequal density, in a greater or less degree than at Clifton Beacon.

Setting aside the consideration of elliptical arches not being proportionate to the angles formed by the meeting of the verticals, or intersections of the radii of curvatures at their extremities, yet in the present case, the total arch not exceeding two degrees, we may use a statement of simple proportion. Taking therefore the terrestrial arc between Dunnose and Clifton as 1036337, and its subtence in the Heavens as 2° 50′ 23″ 38; and also the total meridional distance between the parallels of Dunnose and Burleigh Moor as 1442852,5 feet, we shall have

1036337 feet : 2° 50′ 23″,38 (10223,″38) : : 1442852,5 feet : 14233″,6 = 3° 57′ 13″,6

the subtence of that arc, or the difference of latitude between those parallels. But this arc has been found by observation to be 3° 57′ 13″, 1, almost exactly the same as the computed result.

The length of the degree on the meridian at the middle point between Dunnose and Burleigh Moor, of which the latitude is 52° 35′ 45″, is 60823,8 fathoms. In the account of the former measurement (p. 108), the length of the degree in 52° 2′ 19″,8 is stated to be 60820 fathoms which is nearly the same. Were the earth an ellipsoid, the diameter of its polar and equatorial axes in the ratio of 229 to 230, the degree in 52° 34′ should be

nearly 60830 fathoms, if the length of that in 52° 2′ be taken 60820.

ART. VI. *Computation of the Distance between the Parallels of Latitude of Dunnose in the Isle of Wight, and Delamere Forest.*

When the great circular instrument was placed over the point at Delamere Forest, the direction of the meridian was observed. The bearing of the staff at Kelsall from the north meridian was found, as may be seen from the observations made at that station, to be 138° 1′ 7″. The angle between Ashley Heath and the same staff was also taken and seen to be 73° 24′ 31″,5; these two angles give 31° 25′ 38″,5 for the south-east bearing of Ashley Heath from the meridian of Delamere Forest. This bearing carried through the series of triangles connecting Delamere Forest with Black Down, a principal station in Dorsetshire, gives the bearings of the following sides from that meridian, viz.

		°	′	″	
Ashley Heath from Delamere Forest	-	31	25	38,5	S. E.
Brown Clay Hill from Ashley Heath	-	16	38	10	S. W.
Malvern Hills from Brown Clay Hill	-	23	25	12	S E.
Trelleg Beacon from Malvern Hills	-	32	14	58,5	S. W.
Dundry Beacon from Trelleg Beacon	-	6	37	9,75	S. E.
Mendip Hills from Dundry Beacon	-	19	4	46	S. E.
Ash Beacon from Mendip Hills	-	3	28	51,75	S. E.
Mintern from Ash Beacon	- -	5	22	58	S. E.
Black Down from Mintern	- -	10	30	53,5	S. W.

These Bearings with their respective sides give

Ashley Heath from the meridian	67472,1	E.	110418,2	from the
Brown Clay Hill -	19203,2	E.	279161	perpen.
Malvern Hills - - -	77902,2	E.	407476,5	

Trelleg Beacon - -	5075.3	W.	538989,9
Dundry Beacon - -	9628,2	E.	665692,9
Mendip Hill - -	32246,2	E.	731085,9
Ash Beacon - -	36896,2	E.	807525,7
Mintern - -	42446,6	E.	866431,5
Black Down - -	31546,3	E.	925158,5

The parallel of Black Down cuts the meridian of Delamere Forest 30 feet farther to the southward than the parallel to the perpendicular, therefore 925158 + 30 = 925188,5 feet, is the corrected distance between the parallels of latitude of the two stations.

The bearings of Mintern, Ash Beacon, Mendip, and Dundry Beacon from the parallels to the meridian and perpendicular at Blackdown, are given in the second volume, page 115. If the calculation be carried on from the side, Dundry Beacon and Mendip, through the same series of triangles as before used, we shall have

	°	′	″	
Trelleg Beacon from Dundry Beacon -	6	31	26	N. W.
Malvern Hills from Trelleg Beacon -	32	20	43	N. E.
Brown Clay Hill from Malvern Hill -	23	19	27	N. W.
Ashley Heath from Brown Clay Hill -	16	43	55	N. E.
Delamere Forest from Ashley Heath -	31	19	58	N. W.

These bearings, with their respective sides, and the distance from Dundry Beacon to the meridian and perpendicular, viz. 21488 feet W. and 259503 feet, give

	Feet.		Feet.	
Trelleg Beacon from the meridian	35980,2	W.	386230,2	from the perpendicular.
Malvern Hills - -	47241,4	E.	517612,2	
Brown Clay Hill - -	11250,8	W.	653225,7	
Ashley Heath - -	37288,9	E.	814689,7	
Delamere Forest -	30000,7	W.	925214,7	

From the meridional distance thus found (925214,7 feet)

thirty-four feet must be subtracted, the perpendicular at Dunnose, cutting the meridian 34 feet north of the parallel of Delamere Forest. Therefore 925214,7—34=925180,7 feet is the corrected distance. By calculating with the bearings, from Delamere Forest downwards, the distance has been found to be 925188,5 feet, giving a difference of 8 feet nearly between the two results; the mean 925184,6 feet, may be taken for the true meridian distance between the two stations.

The distance between the parallels of Blackdown and Dunnose is accurately 25005,3 feet. Therefore 925184,6+25005,3= 950189,9 feet is the true distance between the parallels of Black Down and Delamere Forest.

Now we have portions of two meridians, proceeding from the same Southern parallel; and running up, one the extent of 3° 57′ 13″,1, and the other of 2° 36′ 12″,2. If the surface of the earth in the seat of our operations be uniform in its meridional figure, the subtence of the arch between Dunnose and Delamere Forest should be nearly in the ratio of their amplitudes. This being the case, we shall have 1442852,5 feet (the meridional distance between Dunnose and Burleigh Moor): 3° 57′ 13″,1, its amplitude :: 950189,9 feet (the meridional distance between Dunnose and Delamere Forest: 2° 36′ 13″,2, the amplitude of its arc. From the observations made at the station in Delamere Forest, with the Zenith sector in 1806, combined with those at Dunnose in 1802, with the same instrument, it is found that the difference in latitude of those is 2° 36′ 12″,2, making a difference of 1″, between the calculated and observed amplitudes, constituting a difference, setting aside the consideration of a spheroidical figure of the earth of $\frac{4}{10}$ths of a second in one degree.—Perhaps, under the consideration of each meridional line being obtained independently of the other, and admitting that neither

of them can be measured with perfect accuracy, together with the chances of the amplitudes being in some small degree, either in excess or defect, we may consider the result as sufficiently consistent and satisfactory, and take 60823 fathoms in latitude 52° 34′, or the centre of England, as the length of one degree.

SECTION SIXTH.

ART. I. *Latitudes and Longitudes of Five principal Stations.*

At page 308 of the first volume of the Trigonometrical Survey, the latitude of Dunnose is stated to be 50° 37′ 7″,3, and its longitude 1° 11′ 36″, west from the meridian of Greenwich. The former is derived from the supposition of 50° 44′ 23″7 being the latitude of Beachy Head, and the latter from 15° 11′ 9″ being the longitude eastward of that station. On this occasion it is proper to remark that, the difference in longitude as well as latitude of those stations, was determined from observations made on the pole star.

The arc in the heavens corresponding to its terrestrial subtence between Dunnose and Greenwich, is 0° 51′ 31″,39. See the account of the measurement of an arc of the meridian, page 107. Taking the latitude of Greenwich as 51° 28′ 40″, we get 50° 37′ 8″,61 for the corrected latitude of the first mentioned station, differing 1″,3 from the previous deduction.

The arc between Dunnose and Clifton Beacon, in Yorkshire, see the account of the former measurement, page 107, is 2° 50′ 23″,38; therefore 50° 37′ 8″,61 + 2° 50′ 23″,38 = 53° 27′ 31″,99 is the latitude of Clifton.

At page 57 of the same account, the bearings of the stations connecting Clifton Beacon and Dunnose, from the parallels to the meridian of the former, are given, and these bearings, which it will be necessary to repeat on another occasion, give 4917 feet for the distance of Dunnose from the meridian of Clifton. This

distance, using 61182 fathoms for the length of the degree perpendicular to the meridian in latitude 50° 41′, combined with the latitude of Dunnose as just found, gives 1′ 16″,5 the longitude of Clifton west from Dunnose. Therefore 1° 11′ 36″,+1′ 16″,5 =1° 12′ 52″,5, is the longitude of Clifton west from the meridian of Greenwich, 1° 11′ 36″ being the longitude of Dunnose.

The amplitude of the celestial arc, corresponding to the difference of latitude between Dunnose and Burleigh Moor, as shewn in a previous article, is 3° 57′ 13,″1. This, added to the latitude of Dunnose, gives 54° 34′ 21″,7 for that of Burleigh Moor.

In the former article, the distance from the parallel at Dunnose to the meridian of Burleigh Moor, is 36778 feet. This, calculating with the latitude of Dunnose, and 61182 fathoms for the length of the degree perpendicular to the meridian, gives 9′ 31″,6 for the longitude of Burleigh Moor east from Dunnose. Therefore 1° 11′ 36″—9′ 31″,6=1° 2′ 4″,4, is the longitude of that station west from Greenwich.

The latitude of Dunnose is 50° 37′ 8″,61. The difference between the parallels of that station and Blackdown in Dorsetshire, is 4′ 6″5; (see the second volume, page 90), therefore 50° 37′ 8″,6+4′ 6″5=50°41′ 15″,11 is the latitude of Blackdown, which in the account of 1801, is stated from calculation to be 50° 41′ 13″8. The subtense of the arc, contained by the parallels of Dunnose and Delamere Forest, has been shewn in a foregoing article, to be 2° 36′ 12″,2, therefore 50° 37′ 8″,6+2° 36′ 12′2=53° 13′ 20″,8 is the latitude of the station on Delamere Forest.

The distance of the parallel at Black Down, from the meridian of Delamere Forest, is 31546,3 feet. This has been shewn in a former page. Taking 61182 fathoms for the length of the degree

perpendicular to the meridian, and using 50° 41′ 15″ for the latitude of Black Down, we get 8′ 8″,4 for the longitude of Delamere Forest west from Black Down. The longitude of Black Down is 2° 32′ 22″,4, see the second volume, page 91. Therefore 2° 32′ 22″,4+8′ 8″4=2° 40′ 30″,8, is the longitude of the station on Delamere Forest west from the meridian of Greenwich.

In a subsequent article, specifying the bearing and distances of the several stations from their respective meridians and perpendiculars, it will be shewn that Moel Rhyddlad, in Anglesea, is 406629,7 feet from the meridian of Delamere Forest, and 62475,3 feet north from the perpendicular at that station. These distances converted into their correspondent arcs, and used as *data*, give 53° 22′ 45″,38 for the latitude, and 1° 51′ 21,″1 for the longitude west from Moel Rhyddlad. The longitude of Delamere Forest is 2° 40′ 30″,8. Therefore 2° 40′ 30″.8+1° 51′ 21″,1=4° 31′ 51,″9 is the longitude of Moel Rhyddlad west from the meridian of Greenwich.

The latitudes and longitudes of these important stations, brought into one point of view, will be as follow.

	Latitude.	Longitude.	
Dunnose * -	50° 37′ 8,″6	1° 11′ 36″	W.
Clifton Beacon	53 27 32	1 12 52,5	W.
Burleigh Moor	54 34 21,7	1 2 4,4	W.
Delamere Forest	53 13 20,8	2 40 30,8	W.
Moel Rhyddlad	53 22 45,4	4 31 51,9	W.

ART. II. *Bearings and Distances of the several Stations from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Greenwich.

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Lilleyhoe - -	Royston - -	65 11 46 NE	11716 W	204872 N
Lidlington -		88 55 23 NE		
Royston - -	Orwell - -	11 20 3 NE	3139 W	247664 N
Lilleyhoe - -		46 44 22 NE		
Royston - -	Balsham - -	62 18 6 NE	71083 E	248339 N
Orwell -		89 28 42 NE		
Orwell - -	Maddingly -	35 27 58 NE	14148 E	271932 N
Balsham - -		67 29 29 NW		
Balsham - -	Newmarket -	39 54 6 NE	101844 E	285127 N
Orwell - -		70 21 39 NE		
Newmarket -	Ely Minster -	35 12 21 NW	61891 E	341755 N
Balsham - -		5 37 15 NW		
Newmarket -	Brandon - -	35 54 15 NE	145203 E	345020 N
Ely Minster -		87 45 12 NE		
Brandon - -	Littleport - -	78 0 30 NW	69583 E	361080 N
Newmarket -		23 0 49 NW		
Maddingly - -	Northy - -	15 42 33 NE	30070 E	328539 N
Balsham - -		27 5 5 NW		
Bow Brickhill -	Brogborough -	51 14 35 NE	133800 W	204635 N
Lilleyhoe - -		56 8 17 NW		
Bow Brickhill -	Hill Farm -	43 16 24 SE	140324 W	178714 N
Brogborough -		14 7 45 SW		
Bow Brickhill -	Horsemoor Hill -	83 7 44 SE	14305 W	189517 N
Brogborough -		32 10 10 SW		

The Bearings of the Stations Lilleyhoe and Lidlington, and Bow Brickhill and Lilleyhoe, from the parallels to the meridian of Greenwich, and their distances from the meridian and its perpendicular, as given at page 116, in the second volume, are the data on which the above results are founded, combined with the angles and sides of the proper Triangles.

Meridian of Clifton Beacon.

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Clifton Beacon -	Hathersage -	61 51 50 SW	81329 W	43491 S
	Gringley Beacon -	76 17 26 SE	72929 E	17791 S
Clifton Beacon -	Bradfield Point -	86 8 0 SW	82954 W	5607 S
Hathersage -		2 27 20 NW		
Clifton Beacon -	North end of Base -	68 57 52 NE	68435 E	26319 N
Gringley Beacon -		5 49 4 NW		
Clifton Beacon -	South end of Base -	89 45 12 NW	64461 E	278 N
North end of Base -		8 40 36 SW		
Hathersage -	Sutton Ashfield - -	44 34 55 SE	369 W	125641 S
Gringley Beacon -		34 12 4 SW		
Hathersage - -	Orpit Heights -	5 26 19 SE	71694 W	144693 S
Orpit Heights -	Bardon Hill -	21 21 36 SE	22198 W	271254 S
Orpit Heights -	Holland Hill -	83 30 1 SE	23664 E	155558 S
Bardon Hill -		21 37 23 NE		
Hathersage -	Lords Seat -	85 37 37 NW	133662 W	39493 S
Weaver Hill -		3 24 20 NE		
Arbury Hill -	Helkinton - -	29 2 7 NE	34827 E	391004 S
Bardon Hill -		25 27 46 SE		
Arbury Hill -	Burrow Hill -	56 5 38 NE	17844 E	439430 S
Helkinton - -		19 19 29 SW		
Holland Hill - -	Stathern Point -	47 9 32 SE	85053 E	212486 S
Bardon Hill -		6 16 47 NE		
Stathern Point -	Tilton on the Hill -	4 31 52 SW	78408 E	296328 S
Helkinton - -		24 43 1 NE		
Bardon Hill -	Cropwell Bishop -	45 1 13 NE	46987 E	202118 S
Stathern Point -		74 45 49 NW		
Stathern Point -	Bottesford - -	18 48 20 NE	94193 E	185647 S
Cropwell Bishop -		70 45 56 NE		
Helkinton -	Naseby Field -	69 52 49 NE	53777 E	384063 S
Tilton on the Hill -		15 40 53 SW		
Cropwell Bishop -	South end of proposed	81 9 9 SE	75189 F	206509 S
Holland Hill -	Base - -	45 19 11 SE		
Holland Hill -	Lincoln Minster -	59 19 29 NE	149652 E	80825 S
Stathern Point -		26 8 6 NE		

Meridian of Burleigh Moor.

Burleigh Moor	Easington Heights -	86 59 38 SE	42212 E	2217 S
	Botton Head -	9 7 2 SW	9659 W	60186 S
	Barnaby Moor -	73 24 14 SE	17363 W	5175 S
	Wordeslow Hill -	38 33 34 NW	81057 W	101686 N
	Brandon Down -	63 18 2 NW	34695 W	67743 N
Easington Heights	Looschoe Moor -	15 35 57 SW	25542 E	61925 S
Botton Head -		87 10 17 SE		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Botton Head -	Hemingbrough Spire	5 36 4 SE	13145 E	293404 S
Botton Head - Hemingbrough Spire	Wilton Beacon -	24 55 15 SE 28 58 54 NE	59670 E	209399 S
Wilton Beacon - Hemingbrough Spire	Hunsley Beacon -	29 17 43 SE 82 19 27 NE	100216 E	281667 S
Hunsley Beacon - Hemingbrough Spire	Crowle Beacon -	37 21 7 SW 30 32 55 SE	47208 E	351120 S
Botton Head - Hemingbrough Spire	Hambleton Down -	25 46 19 SW 16 51 36 NW	37847 W	118576 S
Botton Head - Hambleton Down -	Black Hambleton -	43 57 31 SW 17 9 5 NW	44663 W	96486 S
Hambleton Down - Hemingbrough Spire	Ledstone Beacon -	7 28 25 SW 87 57 34 NW	60436 W	290781 S
Ledstone Beacon - Hemingbrough Spire	Staincross Heights -	32 11 37 SW 61 2 32 SW	102307 W	357288 S
Wordeslow Hill - Brandon Down -	Pontop Pike -	83 28 33 NW 23 41 14 NW	153207 W	109938 N
Brandon Down - Pontop Pike -	Collier Law -	84 0 2 NW 51 12 43 SW	197500 W	74342 N
Pontop Pike - Collier Law - -	Rufflaw -	1 10 30 NE 16 3 22 NE	150596 W	237313 N
Collier Law - Rufflaw - -	Simonside Hill -	1 34 31 NE 60 24 8 NW	192365 W	261038 N
Rufflaw - - Simonside Hill -	Alnwick Moor -	0 24 3 NW 40 10 51 NE	151104 W	309898 N

Meridian of Delamere Forest.

	Mow Copt -	69 33 55 SE	103809 E	38078 S
	Ashley Heath -	31 25 38 SE	67472 E	110418 S
	Lawkestone Obelisk -	5 37 21 SE	13041 E	132465 S
	Rodney's Pillar -	23 38 57 W	79676 W	181945 S
Delamere Forest -	Cyrn y Brain Mountain	58 13 0 SW	107472 W	66593 S
	Garreg Mountain -	78 39 26 NW	134612 W	27002 N
	Heswell Hill -	65 44 30 NW	90942 W	40982 N
	Billinge Beacon -	3 42 32 NW	6757 W	104244 N
	Bellefield Hill -	25 18 54 NE	27794 E	48188 N
Garreg Mountain - Cyrn y Brain Mountain	Llanelian Mountain, Denbighshire -	82 13 19 SW 56 22 31 NW	228856 W	14129 S
Garreg Mountain - Llanelian Mountain	Great Ormes Head -	82 34 15 NW 42 38 51 NW	255197 W	42726 N
Garreg Mountain - Cyrn y Brain Mountain.	Snowdon - -	64 56 48 SW 86 4 19 NW	305714 W	52979 S
Garreg Mountain - Cyrn y Brain Mountain	Arrennig Mountain	36 2 47 SW 71 16 16 SW	233929 W	109465 S
Garreg Mountain - Cyrn y Brain Mountain	Arran Fowddy -	25 19 55 SW 51 36 53 SW	221777 W	157137 S

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Garreg Mountain -	Llanelian Mountain, Anglesea -	79 1 47 NW 65 54 43 NW	351829 W	69108 N
Llanelian Mountain Llanelian Mountain A.	Moel Rhyddlad -	83 5 58 SW 41 9 23 NE	406630 W	62475 N
Snowdon - - Llanelian Mountain D.	Moelfre Issa -	83 53 4 SE 62 3 38 SE	194295 W	10417 N
Great Ormes Head - Moelfre Issa -	Gwaunysgaer Down -	55 22 33 NE 86 54 52 SE	155312 W	37337 N
Great Ormes Head - Moelfre Issa -	West end of Base -	6 37 46 NW 77 2 58 SW	196327 W	27903 N
Gwaunysgaer Down West end of Base -	East end of Base -	82 23 2 SE 57 24 25 NE	172029 W	24653 N
Moelfre Issa - Ashley Heath -	Weaver Hill -	72 32 24 NE 65 16 18 SE	181622 E	74514 S
Mow Copt - Weaver Hill -	Castle Ring -	8 9 19 SW 53 0 21 SE	165854 E	184538 S
Ashley Heath - Ashley Heath -	The Wrekin -	22 27 47 SW 82 50 23 SW	29760 E	201633 S
Castle Ring - Ashley Heath -	Long Mount Pole -	38 5 12 SW 30 25 36 SE	39648 W	247096 S
Cyrn y Brain Mountain Hawkestone Obelisk	Long Mountain -	52 46 51 SW 7 11 37 SE	89341 W	210231 S
Cyrn y Brain Mountain Ashley Heath -	Brown Clay Hill -	16 38 10 SW 2 31 50 SE	19204 E	271961 S
Hawkestone Obelisk Brown Clay Hill -	Bar Beacon -	76 43 14 NE	172227 E	235846 S
Long Mountain - Brown Clay Hill -	Stow Hill -	10 7 40 SE 65 41 43 SW	71037 W	312714 S
Stow Hill - - Brown Clay Hill -	Malvern Hill -	57 32 1 SE 23 25 12 SE	77903 E	407477 S
Malvern Hill - Stow Hill - -	Cradle Mountain -	72 29 18 SW 10 21 49 SW	98546 W	463149 S
Stow Hill - - Long Mountain -	Llandinam Mountain	77 40 2 NW 43 52 44 SW	167591 W	291605 S
Long Mountain - Stow Hill -	Radnor Forest -	10 36 5 SW 51 16 46 SW	115144 W	348076 S
Malvern Hill - Cradle Mountain -	May Hill - -	16 21 1 SW 81 22 30 SE	54754 E	486403 S
Malvern Hill - May Hill - -	Trelleg Beacon -	32 15 1 SW 48 41 6 SW	5077 W	538994 S
Malvern Hill - May Hill - -	Cleeve - -	48 25 18 SE 83 5 3 NE	153392 E	474442 S
Malvern Hill - May Hill - -	Symmonds Hall -	2 41 37 SE 20 31 32 SE	85483 E	568490 S
Trelleg Beacon - Cradle Mountain -	Mynydd Mane -	72 46 4 SW 6 10 4 SE	87588 W	564584 S
Cradle Mountain - Mynydd Mane -	Llangeinor Mountain	42 26 3 SW 84 27 17 SW	201382 W	575632 S
Mynydd Mane - Llangeinor Mountain	Capellante -	53 57 7 NW 12 32 29 NE	183410 W	494842 S

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Mynydd Mane -	Garth Hill -	47 1 42 SW	138509 W	612023 S
Llangeinor Mountain		59 56 15 SE		
Garth Hill - -	Ogmoor Down -	69 1 13 SW	209328 W	639180 S
Llangeinor Mountain		7 7 39 SW		
Mynydd Mane -	Flatholmes Lighthouse	5 56 26 SW	98908 W	673438 S
Garth Hill -		32 48 49 SE		
Garth Hill - -	Dunkery Beacon -	26 18 44 SW	206790 W	750102 S
Ogmoor Down -		1 18 37 SE		
Heswell Hill -	Go Hill -	26 47 4 NE	48691 W	124679 N
Billinge Beacon -		64 1 8 NW		
Wittle Hill - -	Rivington Hill -	75 48 18 SW	36849 E	149004 N
Billinge Beacon -		44 15 7 NE		
Mow Copt - -	Wittle Hill -	3 39 47 NW	90920 E	162679 N
Billinge Beacon -		59 6 3 NW		
Wittle Hill -	Axedge - -	24 2 14 SE	161352 E	4756 N
Mow Copt - -		52 57 14 NE		
Wittle Hill -	Holme Moss -	61 9 43 SE	174440 E	116690 N
Axedge - -		6 40 0 NE		
Wittle Hill -	Bleasdale Forest -	40 30 20 NW	13382 E	253449 N
Billinge Beacon -		7 41 13 NE		
Wittle Hill -	Boulsworth Hill -	31 33 35 NE	124757 E	217768 N
Bleasdale Forest -		72 14 12 SE		
Boulsworth Hill	Rumbles Moor -	62 2 19 NE	185144 E	249824 N
Holme Moss -		4 35 47 NE		
Boulsworth Hill -	Great Whernside -	10 8 43 NE	147270 E	343577 N
Rumbles Moor -		21 59 51 NW		
Boulsworth Hill -	Pendle Hill - -	65 45 8 NW	83529 E	236338 N
Wittle Hill -		5 43 48 NW		
Bleasdale Forest -	Beryl Hill -	72 54 9 SW	76892 W	225684 N
Billinge Beacon -		30 0 27 NW		
Boulsworth Hill - -	Ingleborough Hill -	26 22 20 NW	61683 E	344985 N
Great Whernside -		89 3 28 NW		
Ingleborough Hill -	Black Comb -	80 21 7 NW	137430 W	378835 N
Bleasdale Forest -		50 15 34 NW		
Ingleborough Hill -	The Calf -	18 45 34 NW	36724 E	418477 N
Black Comb - -		77 10 34 NE		
Ingleborough Hill -	Shunnor Fell -	24 45 45 NE	96196 E	419806 N
The Calf - -		88 43 10 NE		
Shunnor Fell - -	Water Crag - -	47 6 8 NE	122356 E	444112 N
Great Whernside -		13 54 59 NW		
Ingleborough Hill -	Helvellin Mountain -	45 5 52 NW	70466 W	476684 N
Black Comb - -		34 23 10 NE		
Black Comb - -	Sea Fell, Lower Top -	18 13 18 NE	114683 W	447935 N
The Calf - -		78 59 26 NW		
Black Comb - -	Dent Hill -	20 5 39 NW	170400 W	468957 N
Sea Fell, Lower Top -		69 19 40 NW		
The Calf - -	Cross Fell -	2 29 23 NE	42045 E	540868 N
Helvellin Mountain -		60 17 46 NE		
The Calf - -	High Pike -	43 7 38 NW	78855 W	541870 N
Cross Fell - -		89 31 27 NW		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cross Fell - -	Crif-Fell - -	69 52 16 NW	198212 W	628927 N
Helvellin Mountain -		40 0 0 NW		
Dent Hill - -	Scilly Bank - -	36 38 6 NW	185862 W	489750 N
Black Comb -		23 35 20 NW		
Dent Hill - -	Skiddaw - -	53 42 21 NE	97810 W	522264 N
Crif-Fell - -		43 16 5 SE		
Black Comb - -	Snea Fell - -	88 32 34 NW	379503 W	384996 N
Scilly Bank - -		61 35 18 SW		
Black Comb -	North Berule -	86 3 45 NW	364827 W	394489 N
Scilly Bank - -		61 58 31 SW		
Crif-Fell - -	Wisp Hill -	48 18 8 NE	58722 W	753194 N
Cross Fell - -		25 23 18 NW		
Cross Fell - -	The Cheviot - -	13 52 31 NE	112071 E	824364 N
Wisp Hill - -		67 22 33 NE		
Wisp Hill - -	Sayrs Law - -	16 46 17 NE	3167 E	958532 N
The Cheviot -		39 3 57 NW		
Wisp Hill - -	Queensberry Hill -	89 59 18 NW	189103 W	753213 N
Crif-Fell - -		4 11 28 NE		
Wisp Hill - -	The Dunrigs -	22 56 35 NW	103316 W	858540 N
Sayrs Law - -		46 47 56 SW		
Sayrs Law - -	Mordington Hill -	83 38 21 SE	126416 E	944793 N
The Cheviot - -		6 47 36 NE		
Mordington Hill -	Blackheddon -	25 55 25 SE	156316 E	883277 N
Sayrs Law - -		63 49 54 SE		
Blackheddon -	Lumsdane Hill -	30 40 46 NW	98366 E	980955 N
Sayrs Law - -		76 44 42 NE		
Sayrs Law - -	Largo Law - -	20 11 25 NW	48820 W	1099902 N
Lumsdane Hill		51 3 23 NW		
Sayrs Law - -	East Lomond Top -	37 44 22 NW	108892 W	1103315 N
Lumsdane Hill -		59 26 36 NW		

Meridian of Moel Rhyddlad.

Moel Rhyddlad -	Llanelian Mountain -	81 36 11 NE	54607 E	8061 N
Moel Rhyddlad -		66 40 5 SE	78418 E	33824 S
Llanelian Mountain A.	Llwydiart Mountain -	29 37 8 SE		
Moel Rhyddlad -	Signal Staff -	49 29 56 SW	27731 W	23685 S
Llwydiart Mountain -	Holyhead Mountain -	84 32 39 NW		
Moel Rhyddlad -	Snowdon - -	42 39 10 SE	103898 E	112779 S
Llanelian Mountain A.		22 11 37 SE		
Moel Rhyddlad -	Rhiw Mountain	5 13 53 SW	18237 W	199184 S
Llwydiart Mountain -		30 18 20 SE		
Moel Rhyddlad -	Ynaliog Mountain	11 44 38 SW	43059 W	207137 S
Llwydiart Mountain -		35 1 36 SW		
Moel Rhyddlad - -	Bwlch Mawr	18 4 43 SE	144545 E	136458 S
Llwydiart Mountain -		18 15 50 SW		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Snowdon - -	Pengarn Mountain -	4 13 33 SE	114438 E	255418 S
Rhiw Mountain -		67 1 48 SE		
Rhiw Mountain -	Cader Idris -	73 20 1 SE	141910 E	247128 S
Pengarn Mountain -		73 12 33 NE		
Rhiw Mountain -	Aberystwith Station -	40 22 29 SE	106482 E	345860 S
Pengarn Mountain -		5 1 25 SW		
Aberystwith Station -	Plynlimmon - -	77 37 48 NW	170698 E	331775 S
Cader Idris - -		18 47 1 SE		
Aberystwith Station -	Tregarron Down -	35 31 42 SE	157384 E	417147 S
Plynlimmon -		8 51 48 SW		
Aberystwith Station -	Talsarn - -	10 5 13 SE	92719 E	423237 S
Tregarron Down -		84 37 9 SE		
Talsarn - -	Trecastle Beacon -	38 36 8 SE	189864 E	544915 S
Tregarron Down -		14 15 52 SE		
Talsarn - -	New Inn Hill -	11 28 42 SW	74985 E	510580 S
Trecastle Beacon -		73 21 40 NW		
Talsarn - -	Capel Kynon -	56 7 6 SW	38457 E	459678 S
New Inn Hill -		35 39 54 NW		
Talsarn -	Preceelly Top -	55 17 51 SW	50868 W	522673 S
New Inn Hill -		84 30 37 SW		
New Inn Hill -	Lannon - -	10 8 22 SE	89844 E	593665 S
Trecastle Beacon -		64 0 51 SW		
Lannon -	Margam Down -	59 46 54 SE	191672 E	652970 S
Trecastle Beacon -		0 57 36 SE		
Lannon - -	Cefn Bryn -	2 51 20 SE	92956 E	656078 S
Margam Down -		88 11 54 SW		
Lannon - -	Marros Beacon -	87 59 48 SW	12256 W	597233 S
Cefn Bryn -		60 46 48 NW		
Preceelly Top -	Highgate Mountain -	19 56 32 SW	88575 W	626605 S
Marros Beacon -		68 56 59 SW		
Preceelly Top -	Newton Down -	22 55 9 SW	83414 W	599655 S
Marros Beacon -		88 2 59 SW		
Preceelly Top -	Plumstone Down -	64 45 32 SW	111248 W	551138 S
Newton Down -		29 50 31 NW		
Plumstone Down -	St. Ann's Hill -	24 46 13 SW	140424 W	614368 S
Newton Down -		75 31 50 SW		

Meridian of Black Down.

Mendip Hill	Blagdon -	52 38 31 NW	43818 W	228302
Dundry Beacon		35 35 24 SW		
Blagdon	Brent Knoll -	65 53 48 SW	90868 W	207251 N
Moorlynch		23 39 38 NW		
Blagdon	Bagborough -	54 50 9 SW	147982 W	154918 N
Moorlynch		84 41 22 SW		
Blagdon -	Flatholmes Lighthouse	74 46 29 NW	130067 W	251937 N
Moorlynch		33 17 1 NW		

Names of Stations.		Bearings.	Distance from Meridian.	Distances from Perpendicular.
		° ′ ″	Feet.	Feet.
Bagborough -	Dunkery Beacon -	77 9 29 NW	238111 W	175468 N
Flatholmes Lighthouse		54 42 45 SW		
Bagborough -	Brompton Ralph -	81 37 59 SW	178930 W	150372 N
Dunkery Beacon -		67 1 13 SE		
Bagborough -	Haddon Beacon -	71 49 31 SW	214760 W	133012 N
Dunkery Beacon -		28 47 53 SE		
Dunkery Beacon -	North Molton Ridge -	50 15 12 SW	274478 W	145213 N
Haddon Beacon -		78 27 11 NW		
Dunkery Beacon -	Span Head - -	72 47 9 SW	290090 W	159350 N
North Molton Ridge -		47 49 2 NW		
Span Head -	Cotten Hill - -	63 48 31 SW	339088 W	135255 N
North Molton Ridge -		81 14 18 SW		
North Molton Ridge -	Paracombe - -	36 17 52 NW	300870 W	181147 N
Cotten Hill -		39 47 18 NE		
Paracombe - -	Hangman Hill -	65 33 26 NW	333490 W	195969 N
Cotten Hill -		5 16 42 NE		
Paracombe -	Hartland Point -	71 2 45 SW	454335 W	128443 N
North Molton Ridge -		84 40 21 SW		

ART. III. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the third Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Greenwich.

Royston	Great St. Mary's Steep.	32 23 38 NE	28388 E	268080 N
Orwell	Cambridge -	57 4 23 NE		
Royston	Coton Spire -	22 16 6 NE	14924 E	269929 N
Orwell		39 3 2 NE		
Royston	Great Eversden Steeple	15 6 51 NE	1252 E	242889 N
Orwell		40 2 41 NE		
Royston	Melbourn Steeple	43 7 50 NE	14470 E	222150 N
Orwell		16 36 19 SE		
Royston	Headon Steeple -	89 36 43 NE	21214 E	205095 N
Orwell		29 46 21 SE		
Royston	Chishall Steeple -	83 14 16 SE	1387 E	201398 N
Orwell		24 7 51 SE		
Royston	Orwell Steeple -	15 16 38 NE	1740 W	241394 N
Orwell		12 34 33 SE		
Royston	Ashwell Spire -	87 20 24 NW	35334 W	205969 N
Orwell		37 40 30 SE		
Royston	Meldreth Steeple -	31 35 40 NE	3159 E	229056 N
Orwell		18 41 56 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Royston Orwell	Bassingbourn Steeple	5 39 56 NW 20 2 24 SW	13221 W	220027 N
Madingly Orwell	Granchester Steeple	32 33 20 SE 68 28 53 NE	23050 E	257990 N
Madingly Orwell	Trinity College Chapel	76 46 14 SE 55 55 27 NE	27944 E	268691 N
Madingly Orwell	Trinity Spire, Cambridge	76 7 30 SE 57 12 38 NE	28881 E	268293 N
Madingly Orwell	Trumpington Steeple	37 9 15 SE 73 51 23 NE	26121 E	256134 N
Balsham Orwell	Balsham Steeple	29 16 22 SE 85 1 4 SE	75294 E	240826 N
Balsham Newmarket	Sutton Steeple	24 26 37 NW 53 27 19 NW	30238 E	338199 N
Burham Newmarket	Haddenham Spire	24 35 28 NW 58 3 33 NW	35246 E	326645 N
Madingly Balsham	Cottenham Spire	29 32 54 NE 35 55 43 NW	31634 E	302774 N
Balsham Newmarket	Bottisham Steeple	19 53 30 NW 74 37 42 SW	61759 E	274107 N
Newmarket [illegible]	Mildenhall Steeple	26 8 46 NE 46 51 46 SW	119353 E	320794 N
Newmarket Barton Hill	Stretham Steeple	53 15 1 NW 9 SW	51552 E	322685 N
Bowbrickhill Kinworth	Therfield Steeple	87 31 42 NE 63 7 16 NE	12525 W	196493 N
Powbrickhill Kinworth	[illegible]hall Steeple	88 40 18 NE 63 54 27 NE	14491 W	193673 N
Bowbrickhill Kinsworth	[illegible]don Steeple	89 0 56 SE 65 53 23 NE	16722 W	188184 N
Horsemoor Hill Brogborough	[illegible]ddington Steeple	23 33 41 NE 43 27 14 SW	139201 W	198933 N
Horsemoor Hill Brogborough	Milton Mortyne Steeple	23 2 32 NE 52 14 7 SW	138390 W	201080 N
Hill Farm Brogborough	Woburn Abbey	16 19 0 SE 1 12 0 [illegible]	134742 W	159647 N
Hill Farm Bowbrickhill	Milton Bryant Steeple	87 12 14 NE 59 17 36 SE	132245 W	179108 N
Trusler Hill Lilleyhoe	Tuddington Steeple	[illegible] 47 54 SE 50 50 NW	119593 W	172696 N
Trusler Hill Brogborough	Aspley Steeple	54 15 40 NW 44 55 42 SW	141[illegible]8 W	197260 N
Trusler Hill Brogborough	Willen Steeple	51 43 37 NW 88 1 30 NW	150362 W	205205 N
Trusler Hill Bowbrickhill	Little Brickhill Steeple	76 23 52 SW 6 38 48 SW	152039 W	185126 N

Meridian of Clifton Beacon.

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Gringley Beacon -	Belton Steeple -	15 29 33 NE	87035 E	33103 N
Crowle Beacon -		1 55 55 SE		
Clifton Beacon -	Gringley on the Hill, Steeple - -	75 40 29 SE	71069 E	18149 S
Crowle Beacon -		11 39 42 SW		
Clifton Beacon -	Selby Steeple -	15 33 15 NE	33168 E	119160 N
Crowle Beacon -		39 51 32 NW		
Clifton Beacon -	Axholme Steeple -	81 40 8 NE	80819 E	118350 N
Crowle Beacon -		7 7 15 SW		
Clifton Beacon -	Loughton Spire -	1 55 41 SW	855 W	25395 S
Crowle Beacon -		47 6 38 SW		
Clifton Beacon -	Hatfield Spire -	35 20 29 NE	26961 E	38021 N
Crowle Beacon -		73 32 23 SW		
Clifton Beacon -	Thorne Steeple -	47 17 30 NE	60788 E	56109 N
Crowle Beacon -		88 44 6 NW		
Gringley Beacon -	Epworth Steeple -	18 17 2 NE	87230 E	25492 S
Crowle Beacon -		1 48 30 SE		
Gringley Beacon -	Mosin Steeple -	42 58 22 SW	60330 E	4267 S
Clifton Beacon -		85 57 15 SE		
Gringley Beacon -	East Retford Spire -	23 11 31 SW	68706 E	27648 S
Clifton Beacon -		68 4 40 SE		
Arbury Hill -	South Kilworth Steeple	6 44 16 NE	12983 E	357551 S
Helkinton - -		33 7 50 NW		
Arbury Hill -	Lutterworth Steeple	1 21 58 NE	4055 E	366076 S
Helkinton -		50 58 9 NW		
Arbury Hill -	West Haddon Steeple	35 19 8 NE	32146 E	407593 S
Helkinton -		9 11 32 SW		
Arbury Hill -	Daventry Spire -	43 34 34 NE	14342 E	437149 S
Helkinton - -		23 56 51 SW		
Arbury Hill -	Guilesborough Spire	45 3 26 NE	47225 E	404981 S
Helkinton -		41 36 17 SE		
Arbury Hill -	Dunchurch Steeple -	22 40 44 NW	15129 W	408949 S
Helkinton - -		70 15 35 SW		
Arbury Hill -	Misterton Steeple -	2 11 30 NE	5341 E	364142 S
Helkinton - -		47 38 54 NW		
Arbury Hill -	Naseby Steeple -	38 14 51 NE	51618 E	387186 S
Helkinton - -		77 7 47 NE		
Arbury Hill -	Branston Spire -	1 39 42 NW	1354 E	425966 S
Burrow Hill -		50 43 46 NW		
Arbury Hill -	Shuckburgh Steeple -	54 32 54 NW	11865 W	440155 S
Burrow Hill -		88 38 29 SW		
Arbury Hill -	Cold Ashby Steeple -	33 44 57 NE	42855 E	388998 S
Burrow Hill -		26 22 5 NE		
Helkinton - -	North Kilworth Spire	18 24 42 NW	27927 E	370295 S
Naseby Station -		61 55 55 NW		
Helkinton -	Sibertoft Steeple -	37 15 9 NE	49364 E	371906 S
Naseby Station -		19 55 37 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Weaver Hill -	Litchfield Spire -	2 39 51 SE	135299 W	281269 S
Stathern Point Burrow Hill -	Cold Overton Steeple	6 8 43 SE 69 38 35 SE	92595 E	282549 S
Helkinton - Naseby Station -	Welford Steeple -	6 13 44 NE 76 13 47 NW	36058 E	379737 S
Tilton on the Hill - Stathern Point	Waltham on the Wolds Spire	11 3 43 NE 14 54 12 SE	90672 E	233612 S
Tilton on the Hill Burrow Hill -	Tilton on the Hill Spire	84 44 36 SW 17 18 46 SW	70495 E	297071 S
Bardon Hill - Stathern Point	Nottingham Steeple	24 27 17 NE 67 53 10 NW	17087 E	184882 S
Bardon Hill - Stathern Point	Breedon on the Hill Steeple, -	27 36 4 NW 78 32 0 SW	39795 W	237803 S
Stathern Point Holland Hill -	Bottesford Spire -	16 50 47 NE 65 11 53 SE	92637 E	187441 S
Stathern Point Holland Hill -	Redmile Spire -	17 15 3 NE 56 20 47 SE	89183 E	199187 S
Stathern Point Holland Hill -	Bingham Spire -	41 47 23 NW 51 32 11 SE	59897 E	184351 S
Stathern Point Holland Hill -	Langar Steeple -	21 37 39 NW 52 59 5 SE	79032 E	197314 S
Stathern Point Holland Hill -	Plungar Steeple -	30 32 48 NW 49 20 13 SE	80030 E	203988 S
Stathern Point Holland Hill -	Granby Steeple -	34 58 3 NW 50 42 46 SE	74090 E	196824 S
Stathern Point Holland Hill -	Caythorpe Spire -	42 39 16 NE 89 18 3 SE	136234 E	156941 S
Stathern Point Holland Hill -	Coleby Spire -	33 46 54 NE 73 6 1 NE	148580 E	117657 S
Stathern Point Holland Hill -	Leadenham Spire -	39 49 16 NE 85 33 53 NE	140045 E	146540 S
Stathern Point - Holland Hill -	Harmstone Steeple -	31 58 54 NE 70 41 37 NE	147740 E	112101 S.
Stathern Point - Holland Hill -	Newark Spire - -	1 15 56 NE 75 56 13 NE	86657 E	139788 S
Stathern Point - Bottesford -	Stathern Steeple -	67 30 38 SW 24 43 1 SW	81082 E	214141 S
Stathern Point - Bottesford -	Boothby Steeple -	37 3 12 NE 43 2 16 NE	152309 E	123418 S
Stathern Point - Bottesford -	Wellingore Steeple	38 49 29 NE 45 54 55 NE	150676 E	130952 S
Stathern Point - Bottesford -	Over Broughton Steeple	63 25 42 SW 44 21 1 SW	51597 E	229230 S
Stathern Point - Bottesford -	Long Bennington Steeple	25 54 6 NE 37 36 29 NE	104723 E	171982 S
Stathern Point - Bottesford -	Doddington Spire -	23 49 2 NE 29 17 40 NE	106890 E	163027 S
Stathern Point Bottesford -	Foston Spire -	27 53 15 NE 56 1 34 SE	97792 E	188084 S

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Stathern Point -	Nether Broughton Steeple - -	60 8 11 SW	55666 E	229371 S
Bottesford -		41 23 29 SW		
Bardon Hill -	Loughborough Steeple	49 45 0 NE	3591 E	249436 S
Tilton on the Hill -		57 54 51 NW		
Bardon Hill -	Belton Spire -	8 34 22 NW	25045 W	252377 S
Loughborough -		84 8 10 SW		
Cropwell Bishop -	Kilvington Steeple -	70 32 59 SE	77941 E	213060 S
Bottesford - -		30 40 15 SW		
Cropwell Bishop -	Barkston Spire -	88 18 3 NE	82828 E	201067 S
Bottesford - -		36 24 51 SW		
Cropwell Bishop -	Whatton Spire -	56 36 31 NE	72322 E	185427 S
Bottesford - -		89 24 0 NW		
Holland Hill -	Kritch Spire -	1 53 19 NW	20906 E	71861 S
Sutton - -		21 34 48 NE		
Sutton - -	Sutton Spire -	67 14 48 NW	10923 W	121219 S
Orpit Heights -		68 52 37 NE		
Sutton - -	Kirby Spire -	60 39 21 SW	10749 W	131480 S
Orpit Heights -		77 45 47 NE		
Weaver Hill -	Derby Steeple -	68 21 24 SE	59752 W	194407 S
Orpit Heights		16 41 5 SW		

Meridian of Burleigh Moor.

Wilton Beacon -	York Minster -	79 19 30 SW	8951 W	222335 S
Botton Head -		0 15 0 SE		
Rumbles Moor -	York Spire -	83 20 6 NE	8621 W	224182 S
Ledstone Beacon -		37 52 57 NE		
Rumbles Moor -	Wakefield Spire -	41 3 31 SE	99015 W	323960 S
Ledstone Beacon -		49 18 14 SW		
Ledstone Beacon -	Brayton Spire -	88 48 22 SE	9627 W	291840 S
Staincross Heights -		54 46 17 NE		
Ledstone Beacon -	Drax Spire -	77 23 45 SE	13676 E	307353 S
Staincross Heights -		66 42 22 NE		
Rumbles Moor -	High Howland Steeple	24 1 6 SE	118661 W	357190 S
Staincross Heights -		89 39 14 SW		
Ledstone Beacon -	Howden Steeple -	83 45 0 SE	37484 W	301504 S
Hambleton Down -		22 22 56 SE		
Ledstone Beacon -	Bishop Wilton Spire	56 9 25 NE	55128 E	213291 S
Hambleton Down		44 28 7 SE		
Hambleton Down -	Ripon Church -	58 16 17 SW	102931 W	158820 S
Black Hambleton Down		43 4 8 SW		
Wilton Beacon -	Home Steeple -	56 24 9 NE	107477 E	241160 S
Hunsley Beacon -		10 9 51 NE		
Hunsley Beacon -	Crowle Steeple -	38 31 3 SW	44466 W	351709 S
Crowle Beacon -		77 51 18 SW		
Collier Law -	Durham Cathedral	89 59 8 SE	113047 W	74320 N
Wordeslow Hill -		49 27 35 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Collier Law - -	Brusselton Folly -	47 20 10 SE	136738 W	18342 N
Wordeslow Hill -		33 44 52 SW		
Collier Law - -	Westerton Folly -	63 35 35 SE	124502 W	38093 N
Wordeslow Hill -		34 20 33 SW		
Collier Law - -	Merrington Ch Tower	66 24 54 SE	117265 W	39312 N
Wordeslow Hill -		30 8 15 SW		
Collier Law -	West Boldon Spire -	60 47 12 NE	86809 W	136240 N
Wordeslow Hill -		9 27 3 NW		
Collier Law - -	Newbiggin Spire -	33 54 6 NE	96493 W	224649 N
Wordeslow Hill -		7 9 17 NW		
Collier Law - -	Seaton Delaval Summer House -	42 45 16 NE	93574 W	186754 N
Wordeslow Hill -		8 22 15 NW		
Brandon Down -	North Shields Church -	27 48 39 NE	85524 W	160965 N
Wordeslow Hill -		4 18 31 NW		
Brandon Down -	Sherf Hill Beacon Staff	17 39 1 NE	113713 W	13692 N
Wordeslow Hill -		45 34 25 NW		
Wordeslow Hill -	Hartlepool Church Tower -	42 16 24 SE	29883 W	45393 N
Burleigh Moor -		33 21 24 NW		
Wordeslow Hill	Sunderland Lighthouse	28 13 14 NE	67529 W	126893 N
Burleigh Moor -		28 1 13 NW		
Wordeslow Hill -	Windmill on Marston Hill - -	9 33 37 NE	74124 W	142852 N
Burleigh Moor -		27 25 26 NW		
Burleigh Moor - -	Easington Church Tower -	40 37 54 NW	66871 W	77931 N
Brandon Down -		81 27 23 NE		
Wordeslow Hill -	Chester-le-Street Spire	84 57 12 NW	111826 W	104402 N
Pontop Pike -		82 22 58 SE		
Wordeslow Hill -	Whitburn Spire -	18 32 26 NE	68944 W	137802 N
Pontop Pike - -		71 42 8 NE		
Wordeslow Hill -	Tynemouth Lighthouse	2 7 23 NE	78739 W	164237 N
Rufflaw -		44 8 SE		
Rufflaw - - -	Lighthouse Coquet Island - -	48 20 18 NE	103876 W	278882 N
Alnwick Moor -		56 42 20 SE		
Rufflaw - -	Earls Mount Obelisk -	2 12 9 NE	147683 W	313031 N
Alnwick Moor -		47 30 47 NE		
Rufflaw - -	Warkworth Castle -	50 33 15 SE	18825 W	283342 N
Alnwick Moor -		34 36 52 NE		
Alnwick Moor - -	Bambrough Castle -	10 17 28 NE	138437 W	379661 N
Blackheddon - -		75 54 15 SE		
Alnwick Moor -	Embleton Church Tower -	44 22 55 NE	123515 W	338089 N
Blackheddon - -		48 35 19 SE		
Alnwick Moor - -	Dunstanbrough Castle	53 47 43 NE	115157 W	336211 N
Blackheddon		51 17 8 SE		
Alnwick Moor	Lighthouse on the West Staples - -	18 18 14 NE	127096 W	382474 N
Blackheddon		81 25 52 SE		
Alnwick Moor	Beadnell Spire -	28 49 54 NE	123487 W	360381 N
Blackheddon		62 58 54 SE		
Alnwick Moor	Windmill on Sunderland Point - -	25 7 40 NE	124008 W	367668 N
Blackheddon		68 36 9 SE		

Meridian of Delamere Forest.

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cleeve - -	Glocester Cathedral -	70 7 32 SW	99194 E	494033 S
Malvern Hill -		13 49 16 SE		
Cleeve - -	Church Down Steeple -	63 52 15 SW	115937 E	492810 S
Malvern Hill -		24 1 28 SE		
Malvern Hill -	Cheltenham Steeple -	38 53 38 SE	137483 E	481327 S
May Hill - -		86 29 17 NE		
Malvern Hill -	Cleeve Steeple -	48 12 53 SE	141426 E	464240 S
May Hill - -		75 39 20 NW		
Malvern Hill -	Beckford Steeple -	66 12 17 SE	146216 E	437598 S
May Hill - -		61 54 55 NE		
Malvern Hill -	Prestbury Steeple -	43 57 59 SE	144484 E	476504 S
May Hill - -		83 42 6 NE		
Malvern Hill -	Tewkesbury Steeple -	44 12 55 SE	118307 E	448999 S
May Hill - -		59 31 18 NE		
Malvern Hill -	Breedon Spire -	61 56 56 SE	127783 E	434053 S
May Hill - -		54 21 58 NE		
Malvern Hill -	Ledbury Steeple -	36 14 11 SW	59726 E	432233 S
May Hill - -		5 17 10 NE		
Malvern Hill -	Pershore Steeple -	87 37 35 NE	176605 E	405043 S
May Hill - -		45 10 23 NE		
Trelleg Beacon -	Trelleg Steeple -	85 6 38 NW	8967 W	538657 S
Mynydd Mane -		71 44 58 NE		
Trelleg Beacon -	Lansdown Monument -	32 26 48 SE	69225 E	655857 S
Mynydd Mane -		59 47 55 SE		
Garth Hill - -	The highest part of Twymbarlum Mt.	56 20 52 NE	92711 W	581533 S
Mynydd Mane -		16 49 4 SW		
Garth Hill -	Llantrissant Steeple -	88 46 54 SW	157213 W	612421 S
Ogmoor Down -		62 49 19 NE		
Mynydd Mane -	Beacons of Brecknock	46 44 10 NW	169628 W	487370 S
Llangeinor Mountain		19 47 15 NE		
Mynydd Mane -	Pen-y-voel -	18 38 36 NE	58662 W	478848 S
Llangeinor Mountain		55 51 27 NE		
Llanelian, Denbighshire	St. Elmo Summer House	72 42 22 NE	150731 W	38453 N
Garreg Mountain -		54 36 33 NW		
Llanelian, Denbighshire	Llandonna Signal Staff	75 43 47 NW	314396 W	35886 N
Llanelian, Anglesea		48 24 43 SE		
East end of R. Base -	St. Asaph Cathedral -	30 51 47 SE	165530 W	13778 N
West end of R. Base -		65 21 45 SE		
East end of R. Base -	Rhuddlan Steeple -	19 59 43 SE	171485 W	26149 N
West end of R. Base -		85 57 39 SE		
East end of R. Base	Abergele Steeple -	89 26 59 SW	196418 W	24420 N
West end of R. Base -		1 29 25 SW		
East end of R. Base -	Cave Hill Signal Staff	87 43 58 SW	205826 W	23316 N
West end of R. Base -		64 13 29 SW		
Cyrn y Brain Mountain	Trinity Spire, Chester	48 15 37 NE	45830 W	11597 S
Long Mountain -		12 21 22 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cyrn y Brain Mountain Delamere Forest -	Winwick Spire -	41 31 54 NE 14 2 58 NE	19095 E	76307 N
Cyrn y Brain Mountain Garreg Mountain -	Neston Steeple -	15 4 17 NE 87 34 43 SE	82859 W	24813 N
Garreg Mountain - Delamere Forest -	Bidston Lighthouse -	52 12 26 NE 52 15 26 NW	84793 W	65537 N
Garreg Mountain Delamere Forest -	St. Paul's, Liverpool	58 5 53 NE 44 12 12 NW	67122 W	69015 N
Heswell Hill - Billinge Beacon -	Formby NW Landmark	1 21 17 NE 81 7 4 NW	89140 W	117118 N
Heswell Hill - Billinge Beacon -	Formby SE Landmark	6 8 39 NE 81 13 4 NW	82865 W	116002 N
Heswell Hill - Billinge Beacon -	Crosby Steeple -	16 6 57 NE 85 18 59 SW	74261 W	98714 N
Heswell Hill - Billinge Beacon -	Helbre Lighthouse -	39 2 46 NW 67 42 27 SW	108440 W	62557 N
Heswell Hill - Billinge Beacon -	Bebbington Spire -	76 25 1 NE 47 11 21 SW	69440 W	46178 N
Heswell Hill - Billinge Beacon -	Point of Air Lighthouse	79 24 24 NW 67 41 16 SW	139006 W	49972 N
Heswell Hill - Billinge Beacon -	Sephton Spire -	24 46 4 NE 89 1 36 SW	62188 W	103302 N
Heswell Hill - Billinge Beacon -	Wavertree Steeple	61 26 28 NE 46 36 51 SW	50264 W	63123 N
Heswell Hill - Billinge Beacon -	Leasowes Lighthouse -	9 48 16 NW 69 3 45 SW	95984 W	70160 N
Garreg Mountain - Heswell Hill -	Eastham Spire -	85 0 15 NE 76 15 22 SE	60332 W	33495 N
Heswell Hill - Belle-field Hill -	Prescot Spire -	61 55 27 NE 60 58 33 NW	26334 W	75445 N
Heswell Hill - Belle-field Hill -	Everton Flagstaff -	40 55 22 NE 72 59 9 NW	62160 W	74182 N
Billinge Beacon - Belle-field Hill -	Warrington Steeple -	35 8 35 SE 1 19 57 NE	23111 E	61814 N
Billinge Beacon - Belle-field Hill -	St. Mary's Spire, Manchester - -	85 6 17 SE 56 49 15 NE	95174 E	95514 N
Billinge Beacon - Belle-field Hill -	Standish Spire -	22 22 6 NE 11 39 15 NW	5226 E	133363 N
Billinge Beacon - Go-Hill - -	North Meals Spire -	43 33 19 NW 17 36 28 NW	59966 W	160206 N
Billinge Beacon - Go-Hill - -	Halsall Spire -	60 48 32 NW 48 36 25 NW	57692 W	132851 N
Billinge Beacon - Go-Hill - -	Blackrod Steeple -	41 37 56 NE 80 42 17 NE	21637 E	136190 N
Billinge Beacon - Go-Hill - -	Aughton Spire -	73 57 48 NW 15 55 7 SW	50896 W	116931 N
Wittle Hill - Billinge Beacon -	Knoll Hill - -	39 48 25 SE 63 26 11 NE	96570 E	155903 N
Boulsworth Hill - Wittle Hill -	Waller's Pleasure House	86 44 52 NW 23 4 45 NW	66020 E	221105 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Knoll Hill -	Bennington Steeple -	16 22 14 SE	106705 E	121208 N
Wittle Hill -		20 55 29 SE		
Bar Beacon -	Walsall Steeple -	82 41 53 NW	136080 E	
Castle Ring -		32 31 52 SW		
Bar Beacon -	Wednesbury Spire -	74 59 51 SW	147948 E	
Castle Ring - -		17 12 18 SW		
Clay Hill - -	Shrewsbury New Ch.	22 50 28 NW	16230 W	
Ashley Heath -		47 14 0 SW		
Bar Beacon -	Wolverhampton Spire	87 1 43 NW		
Castle Ring -		40 38 59 SW		
Llanelian, Denbighshire	Gwannysgaer Sig. Staff	72 13 15 NE		
Garreg Mountain -		57 27 24 NW		
Llanelian, Denbighshire	Mocl Fammau -	69 47 2 SE	125139 W	
Garreg Mountain -		10 30 34 SE		
Go-Hill - -	Ormskirk Spire -	65 10 48 NE	43945 W	
Beryl Hill -		18 26 23 SE		
Go-Hill -	Ashurst Beacon -	88 35 59 NE		
Beryl Hill -		31 40 36 SE		
Beryl Hill -	North Station on the Cliff near Blackpool	89 2 38 SW		
Ashurst Beacon -		32 54 18 NW		
Beryl Hill -	Bispham Church Tower	9 22 34 NE		
North Station -		32 2 41 NE		
Beryl Hill -	Landmark, Rossal Point	3 21 37 NW		
Black Comb -		25 27 15 SE		
Beryl Hill - -	Poulton Church Tower	75 23 44 NE		
Black Comb -		25 20 58 SE		
Black Comb -	Coniston Fell -	47 27 27 NE		115726 N
Ingleborough Hill -		64 11 32 NW		
Black Comb -	Peel Castle -	24 30 59 SE	104753 W	
Ingleborough Hill -		77 12 15 SW		
Black Comb -	Lancaster Church Tower	55 41 44 SE	25786 W	
The Calf -		28 21 51 SW		
Black Comb -	Great Gavel -	16 22 16 NE		
The Calf -		74 21 6 NW		
Black Comb -	The Pillar - -	7 5 27 NE		466268 N
Dent Hill -		86 29 26 SE		
Black Comb -	Windmill near Whitehaven -	27 48 33 NW		484113 N
Dent Hill -		55 44 17 NW		
Dent Hill -	Red Pike - -	81 49 19 NE		475068 N
Scilly Bank -		75 47 35 SE		
Dent Hill -	Grisdale Pike -	57 49 39 NE		499324 N
Scilly Bank -		81 27 23 NE		
Dent Hill -	Workington Chapel	18 52 38 NW		19287 N
Scilly Bank -		3 23 13 NW		
Dent Hill -	Lighthouse, Saturness Point -	8 51 19 NW		603982 N
Crif-Fell -		15 11 54 SE		
Scilly Bank -	Lighthouse, St. Bee's Head - -	43 55 16 SW		472925 N
Crif-Fell -		1 24 49 SW		
The Calf -	Pennigant Hill -	36 24 24 SE		341351 N
Ingleborough -		83 30 13 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
The Calf - -	Kirkby Lonsdale,	16 35 36 SW	18846 E	358472 N
Ingleborough -	Church Tower -	72 31 32 NW		
The Calf - -	Whernside in Ingleton	25 1 16 SE	60567 E	367393 N
Ingleborough -	Fells - -	2 51 10 NW		
The Calf - -	Penrith Beacon -	23 36 33 NW	12292 W	530622 N
Cross Fell -		79 19 20 SW		
Cross Fell -	Bow Fell -	57 14 12 SW	102230 W	448018 N
High Pike -		13 59 8 SW		
Cross Fell -	Carrock Fell -	88 17 0 SW	71283 W	537470 N
High Pike - -		59 49 0 SE		
Cross Fell -	Cold Fell Pike -	21 29 24 NW	14638 E	610484 N
High Pike -		53 43 34 NE		
Cross Fell -	Dufferside Beacon -	10 7 14 NW	34287 E	584323 N
High Pike -		69 25 59 NE		
Cross Fell -	Saddle Back -	79 6 44 SW	77075 W	517954 N
High Pike -		4 15 32 SE		
Cross Fell -	Nine Standards -	26 33 34 SE	87372 E	450200 N
Water Crag -		80 7 32 NW		
Cross Fell -	Killhope Law -	51 15 5 NE	85468 E	575714 N
Water Crag -		15 39 23 NW		
Criffel - -	Carlaveroc Castle -	60 27 57 NE	176185 W	641404 N
High Pike -		44 21 32 NW		
Criffel - -	Annan Spire -	78 15 33 NE	120208 W	645137 N
High Pike - -		21 49 20 NW		
Criffel - -	Whin Fell -	27 20 39 NE	120192 W	777799 N
Wisp Hill - -		66 35 48 NW		
Collier Law -	Peel Fell Pile -	35 41 34 NW	12913 E	747159 N
High Pike -		25 41 [illegible] NE		
Mordington Hill -	Low Building on the	51 32 [illegible] SE	[illegible] E	876120 N
Blackheddon -	Staples -	82 47 3 [illegible]		
Mordington Hill -	Lighthouse on the East	56 3 20 SE	219600 E	882440 N
Blackheddon -	Staples -	89 13 5[illegible] SE		
Mordington Hill -	Beacon Staff on Old	47 20 0 SE	184860 E	890925 N
Blackheddon -	Law -	74 59 59 NE		
Mordington Hill -	Holy Island Castle -	49 55 7 SE	185907 E	894730 N
Blackheddon -		68 50 23 NE		
Mordington Hill -	Kyloe Church Tower	30 12 15 SE	158325 E	889976 N
Blackheddon -		16 40 37 NE		
Mordington Hill -	Lowick Church Tower	18 5 31 SE	145129 E	887429 N
Blackheddon -		69 34 42 NW		
Mordington Hill -	Norham Castle -	27 0 31 SW	110312 E	[illegible]3102 N
Blackheddon -		56 57 24 NW		
Mordington Hill -	Hume Castle -	57 17 47 SW	41423 E	892145 N
Blackheddon -		85 28 1 NW		
Mordington Hill -	Dunse Spire -	78 [illegible] 23 SW	70722 E	933[illegible] N
Blackheddon -		59 40 52 NW		
Mordington Hill -	Blackadder Tower	68 54 22 SW	93157 E	93[illegible]63 N
Blackheddon -		52 12 23 NW		
Sayrs Law - -	Berwick upon Tweed,	78 37 55 SE	140540 E	130[illegible] N
Blackheddon -	Spire - -	18 19 27 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Sayrs Law - -	Habchester Hill, Signal	85 43 57 SE	122424 E	949631 N
Blackheddon -	Staff - -	27 3 15 NW		
Sayrs Law - -	Elden Hills, highest	5 49 55 SW	6711 W	861801 N
Mordington Hill -	Point - -	58 3 36 SW		
Sayrs Law - -	Hedghope Pile -	41 24 40 SE	123518 E	822075 N
Mordington Hill -		1 21 7 SW		
Sayrs Law -	West Lomond Top	41 6 8 NW	124277 W	1104614 N
Lumsdane Hill -		60 57 7 NW		
Sayrs Law - -	St. Monance Spire -	8 58 19 NW	17367 W	1088591 N
Lumsdane Hill -		47 4 34 NW		
Sayrs Law - -	Pittenweem Spire -	5 4 11 NW	8583 W	1090973 N
Lumsdane Hill -		44 11 32 NW		
Sayrs Law -	West Anstruther Spire	2 52 56 NW	3732 W	1095578 N
Lumsdane Hill -		41 41 33 NW		
Sayrs Law - -	East Anstruther Spire	2 34 58 NW	3945 W	1096257 N
Lumsdane Hill -		41 19 58 NW		
Sayrs Law -	Kilrenny Spire -	1 22 11 NW	215 W	1099989 N
Lumsdane Hill -		39 37 51 NW		
Sayrs Law -	High Spire in Crail -	3 24 33 NE	12209 E	1110310 N
Lumsdane Hill -		33 39 56 NW		
Sayrs Law -	High Building, near	4 37 30 NE	15948 E	1116465 N
Lumsdane Hill -	Crail -	31 18 30 NW		
Sayrs Law -	Lighthouse on the Isle	10 36 8 NE	26336 E	1082304 N
Lumsdane Hill -	of May -	35 24 7 NW		
Sayrs Law -	Bas Rock -	4 10 26 NE	9326 E	1042918 N
Lumsdane Hill -		55 9 58 NW		
Sayrs Law -	Signal Staff on North	0 52 12 NW	5714 W	1032249 N
Lumsdane Hill -	Berwick Law -	63 45 53 NW		
Sayrs Law -	Signal Staff on Dulau	71 37 26 NE	93599 E	988571 N
Lumsdane Hill -		32 2 34 NW		
Sayrs Law - -	Building on Hill, near	25 53 55 SW	44566 W	860237 N
Wisp Hill - -	Stow - -	7 31 57 NE		
Sayrs Law - -	Soutra Hill Pile -	89 55 45 NW	15738 W	958557 N
Wisp Hill -		11 49 15 NE		

Meridian of Moel Rhyddlad.

Margam Down	St. Ann's Chapel, Lundy	54 21 18 SW	25338 W	803593 S
Cefn Bryn	Isle	37 47 51 SE		
Margam Down	Kilvey Windmill	72 46 21 NW	143207 E	637143 S
Cefn Bryn		70 9 32 NE		
Cefn Bryn	Penbree Steeple	38 10 12 NW	62192 W	616939 S
Marros Beacon		75 10 28 SE		
Cefn Bryn	Tenby Spire	75 21 36 NW	34139 W	622876 S
Marros Beacon		40 28 36 SW		
Cefn Bryn	Crunwell Steeple	63 55 24 NW	25529 W	598091 S
Marros Beacon		86 18 9 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular
		° ′ ″	Feet.	Feet.
Cefn Bryn -	Marros Steeple -	59 17 50 NW 89 41 28 SW	11233 W	594209 S
Lannon - -	Tidvelly Spire -	88 28 20 SE 81 16 24 SW	54908 E	599026 S
Marros Beacon -	Woolhouse Caldy Isle	24 38 27 SW 70 0 23 SW	30743 W	537538 S
Lannon - -	Sr. Ann's Lighthouse, Milford Haven -	80 41 40 SW 43 37 25 SW	142092 W	618390 S
Marros Beacon -	Warren Spire -	66 49 32 SW 23 40 38 SW	100049 W	534818 S
Precelly Top -	St. Petrox Steeple -	63 49 42 SW 18 9 58 SW	87459 W	634190 S
Marros Beacon -	Nipple Rock -	58 29 44 NW 34 5 14 NE	79930 W	604860 S
Precelly Top -	Haverfordwest Spire	33 7 39 SE 45 41 45 SW	95794 W	571820 S
Plumstone Down -	Prandergest Steeple	40 22 47 SW 38 22 20 SE	93808 W	573164 S
Precelly Top -	Pencarn	70 41 30 NW 6 4 17 NW	116723 W	499665 S
Plumstone Down -	Roch Castle	52 16 57 SW 63 1 58 SW	119775 W	557733 S
Precelly Top -	Summer House in Lord Milford's Park	21 48 3 SW 50 41 52 SE	74558 W	58[illegible]52 S
Plumstone Down -	Stainton Steeple -	69 3 11 NE 35 43 57 SW	105970 W	521179 S
St. Ann's Hill -	[illegible] Steeple -	65 40 10 NE 35 58 25 SW	10[illegible]584 W	537549 S
Precelly Top -	St. Twinell's Steeple	11 20 22 SE 66 32 51 SE	9[illegible]409 W	534330 S
Plumstone Down -	Gr[illegible]lin Isle -	63 57 41 SW 78 19 57 NW	210387 W	599817 S
St. Ann's Hill -	[illegible]well's Light House	75 2 39 SW 84 17 26 NW	254035 W	603000 S
Plumstone Down -	St. Daniel's Spire -	20 20 35 SE 79 48 23 SE	84046 W	624506 S
St. Ann's Hill -	Hubberston Steeple	73 24 51 NE 52 39 46 NW	114673 W	606696 S
St. Ann's Hill -	Milford Steeple -	78 41 25 NE 47 24 19 NW	108770 W	508038 S
Highgate Mountain	Mote Steeple -	85 13 39 NE 18 23 12 NE	60591 W	542414 S
Plumstone Down -	Castel Baith Steeple	60 51 26 NE 8 18 14 NE	74577 W	530692 S
Highgate Mountain -	Maenclochog Steeple	14 19 31 SW 28 40 56 NE	54058 W	535169 S
Precelly Top -	Rivel Mountain -	39 34 15 NE 9 32 6 SE	24725 E	147200 S
Highgate Mountain -	Penmaen Mawr -	86 28 20 SE 56 30 17 SE	131314 E	42702 S
Rhiw Mountain -				
Moel Rhyddlad -				
Llwydiart Mountain				
Llanelian Mountain				

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Llwydiart Mountain Llanelian Mountain	Coedana Steeple -	74 45 14 NW 19 37 24 SW	43104 E	24199 S
Llwydiart Mountain Llanelian Mountain	Ynys Gadarn -	20 44 32 NW 64 51 41 SE	64274 E	3524 S
Llwydiart Mountain Llanelia Mountain	Ynys traeth Bychan	16 46 31 NW 45 53 45 SE	70409 E	7256 S
Llanelian Mountain Moel Rhyddlad -	Skerry Light house	83 35 44 NW 39 42 8 NW	12993 W	15649 N
Llanelian Mountain Moel Rhyddlad -	Amlwch Steeple	52 25 15 SW 87 59 54 NE	45907 E	1604 N
Llanelian Mountain Moel Rhyddlad -	West Mouse -	83 39 1 NW 5 8 43 NW	1286 W	14281 N
Moel Rhyddlad - Llanelian Mountain	Llanelian Spire -	77 27 55 NE 17 4 7 NW	53435 E	11880 N
Llanelian Mountain Moel Rhyddlad -	Point Elianus Signal Staff - -	18 54 28 NE 76 9 8 NE	56628 E	13960 N

ART. IV. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the Fourth Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Moel Rhyddlad.

New Inn Hill - Precelly Top - Capel Kynon -	Brenin Fawr -	89 3 59 NW 68 57 53 NE 47 33 59 SW	15604 W	509105 S
Precelly Top - Brenin Fawr -	Ferwig Steeple -	23 42 55 NE 9 39 5 NW	23741 W	461253 S
Precelly Top - Brenin Fawr -	Barrow near Pantseison	15 56 25 NE 32 1 35 NW	37154 W	474652 S
Brenin Fawr - Barrow near Pantseison	Cardigan Island, highest Point -	27 8 35 NW 14 13 25 NE	32227 W	455210 S
Brenin Fawr - Barrow near Pantseison	Llanfihangel Penbedw Steeple -	4 50 55 NE 49 34 35 SE	14330 W	494093 S
Precelly Top - Brenin Fawr -	Warren Bank -	31 55 25 NE 1 27 5 NW	16650 W	467746 S
Brenin Fawr - Warren Bank -	Cardigan Steeple	13 2[illegible] 35 NW 55 46 25 SW	24203 W	472883 S
Plumstone Down - St. Ann's Hill -	Penberry Rock -	68 37 31 NW 12 10 3 NW	158004 W	532839 S
St. Ann's Hill - Penberry Rock -	Llaeithty Rock -	19 6 51 NW 65 7 8 SW	167200 W	537105 S

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Penberry Rock -	St. David's Cathedral	19 36 38 SW 29 45 22 SE	162471 W	545378 S
Llaeithty Rock -				
Penberry Rock -	Bishop and his Clerks	81 15 53 SW	189168 W	537627 S
St. David's Cathedral	Highest point of N. Isl	73 48 37 NW		
Plumstone Down -	Ramsey Island, highest point -	88 53 0 SW	180391 W	552486 S
St. Ann's Hill -		32 51 22 NW		
New Inn Hill -	Llangynog Mountain	35 59 50 SW	31920 E	569862 S
Precelly Top -		60 19 8 SE		
Marros Beacon -	Ludchurch Steeple -	67 11 24 NW	33106 W	588464 S
Highgate Mountain		55 29 11 NE		
Marros Beacon -	Worms Head, West Point -	43 37 33 SE	49160 E	661669 S
Lannon -		30 53 26 SW		
Worms Head -	Laugharne Steeple	21 6 19 NW	19500 E	584824 S
Llangynog Mountain	Llansaint Hill, Barrow	44 43 25 SE	53681 E	591834 S
New Inn Hill -		14 41 32 SW		
Llangynog Mountain	Llansteffan Castle	11 31 55 SE	35754 E	588622 S
Llansaint Hill		79 51 58 NW		
Llansaint Hill -	Mancha Hill -	58 51 8 NE	78403 E	576877 S
Llangynog Mountain		81 25 37 SE		
Mancha Hill	Carmarthen (House at west end) -	55 23 49 NW	49356 E	556836 S
Llangynog Mountain		53 13 16 NE		
Brenin Fawr -	Moelfre Barrow -	82 26 7 NE	24613 E	503762 S
Capel Kynon -		17 26 7 SW		
Moelfre Barrow -	Bettws Einon -	13 50 26 NW	15312 E	466020 S
Capel Kynon -		74 41 7 SW		
Capel Kynon -	Penboir Church -	3 37 0 SW	37733 E	502753 S
Moelfre Barrow -		84 51 47 NE		
New Inn Hill -	Crug Edrid -	40 48 54 NE	92661 E	490111 S
Capel Kynon -		60 41 21 SE		
Crug Edrid -	Llanwenog Steeple	36 29 14 NW	78454 E	470902 S
New Inn Hill -		4 59 46 NE		
Crug Edrid -	Brechva Mountain	14 14 21 SW	83387 E	526659 S
New Inn Hill -		27 35 19 SE		
Crug Edrid -	Dinas Rock -	70 2 20 SE	123655 E	501370 S
Brechva Mountain		57 52 18 NE		
Margam Down -	Trecastle Beacon, New Station -	1 6 59 NW	189549 E	544058 S
Kilvey Windmill -		26 16 17 NE		
Kilvey Windmill -	Carreg Glwydd -	13 40 9 NE	162514 E	558560 S
Margam Down -		17 9 48 NW		
Margam Down	Mumbles Lighthouse	82 45 18 SW	131387 E	660632 S
Kilvey Windmil		27 31 1 SW		
Kilvey Windmill -	Swansea Castle -	59 14 27 SW	138006 E	641038 S
Margam Down -		77 27 51 NW		
Carreg Glwydd -	Trechrig Mountain	4[illegible] 47 43 NW	148610 E	542442 S
Trecastle Beacon -		87 43 5[illegible] NW		
Trechrig Mountain	St. Mary on the Hill, Llandovery -	27 54 39 NE	170153 E	501770 S
Trecastle Beacon -		24 38 21 NW		
Cefn Bryn -	Llanelly Steeple -	7 33 38 NW	87932 E	618250 S
Penbree Steeple -		87 5 59 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
			Feet.	Feet.
Cefn Bryn -	Rosilly Barrow -	87 21 22 SW	60877 E	57535 S
Llanelly Steeple -		34 34 48 SW		
Carreg Glwydd -	Lannon Steeple -	62 47 14 SW	97755 E	91864 S
Margam Down -		56 57 6 NW		
Kilvey Windmill -	Tre Carn Issa -	0 43 16 NE	144152 E	562872 S
Margam Down -		27 48 29 NW		
Trechrig Mountain	Great Mountain -	57 3 4 SW	110044 E	67433 S
Tre Carn Issa -		82 22 47 SW		
Trechrig Mountain	Taliaris Pigeon House	51 29 26 NW	129922 E	27578 S
Great Mountain -		26 30 4 NE		
Trechrig Mountain	Llandilo Steeple -	81 53 30 SW	125565 E	545725 S
Taliaris Pigeon House		13 30 30 SW		
Great Mountain -	Llangadock Steeple	42 57 23 NE	150069 E	524452 S
Trechrig Mountain -		4 39 4 NE		
Great Mountain -	Nelson's Tower -	50 58 33 NW	96970 E	556830 S
Trechrig Mountain		74 25 49 SW		

Meridian of Delamere Forest.

Llangeinor Mountain	Margam Down -	57 10 43 SW	231901 W	595318 S
Ogmoor Down -		27 13 55 NW		
Ogmoor Down -	St. Mary Hill Steeple	60 41 36 NE	86148 W	626167 S
Margam Down -		56 0 51 SE		
Ogmoor Down -	Signal Staff, Newton Down -	42 58 52 NW	224143 W	623282 S
Margam Down -		15 30 18 SE		
Garth Hill -	Carn Vawr -	59 10 47 NW	188387 W	582274 S
Ogmoor Down -		20 12 12 NE		
Garth Hill -	Signal Staff, Stalling Downs -	42 16 52 SW	167357 W	643750 S
Ogmoor Down -		83 47 10 SE		
Garth Hill -	St. Hilary Steeple	39 55 53 SW	166836 W	645865 S
Ogmoor Down -		81 3 9 SE		
Newton Down -	Kenfig Steeple -	65 47 48 NW	235819 W	618034 S
Margam Down -		9 47 19 SW		
Ogmoor Down -	Bridgend Steeple -	18 22 36 NE	204292 W	624023 S
St. Mary Hill Steeple		83 15 54 NW		
Ogmoor Down -	Llaleston Steeple -	14 52 36 NW	213173 W	624694 S
Bridgend Steeple		85 41 58 SW		

Meridian of Black Down

Brent Knoll -	Bridgewater Spire	16 46 1 SW	104718 W	161282 N
Bagborough -		81 37 56 NE		
Brent Knoll -	Huntspill Steeple	32 58 49 SW	102600 W	189170 N
vater Spire		4 20 28 NE		

Names of Stations and Intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bridgewater Spire Bagborough	Cannington	56 15 58 NW 56 7 23 NE	121662 W	172589 N
Bridgewater Spire Bagborough	Staple Hill	15 18 34 SW 22 30 10 SE	122980 W	94570 N
Bridgewater Spire Staple Hill	Castlineroach	6 41 45 SW 75 17 1 SE	112862 W	91913 N
Bagborough Brompton Ralph	Sampford	15 8 19 SW 14 46 15 SE	164262 W	94763 N
Haddon Beacon Bagborough	Newts Down	4 0 48 SE 38 27 50 SW	210748 W	75923 N
Haddon Beacon Newts Down	Christ Cross	0 52 27 SE 8 15 40 SW	213587 W	56380 N
Christ Cross Newts Down	Whitestone Station	42 25 44 SW 32 31 31 SW	245402 W	21578 N
Christ Cross Sampford	Kentisbeare	73 2 25 NE 13 8 22 SW	170136 W	69597 N
Bagborough Staple Hill	Dumpdon	2 20 6 SE 26 28 23 SW	143810 W	52733 N
Castlineroach Staple Hill	Yartcombe	25 36 18 SW 2 50 41 SW	124299 W	68046 N
Dumpdon Yartcombe	Harner Hill	75 17 18 SE 13 18 1 SE	119142 W	46252 N
Dumpdon Harner Hill	Combe Rawleigh	75 15 54 SW 83 46 39 NW	153993 W	50053 N
Sampford Kentisbeare	Gaddon Hill	37 36 28 SW 56 39 13 NW	179103 W	75496 N
Sampford Gaddon Hill	Culmstock	14 10 57 SW 44 41 47 NE	165710 W	89032 N
Christ Cross Whitestone	Obelisk, Haldon	8 25 29 SW 23 34 48 SE	225496 W	24031 S
Obelisk Whitestone	Haldon, Old Station	41 54 6 NW 12 19 36 SE	238636 W	9386 S
Haldon Old Station Whitestone	Haldon, New Station	57 45 18 SE 22 38 32 SE	230291 W	14650 S
Haldon New Station Whitestone	Exeter Cathedral	6 8 42 NE 69 24 33 SE	227130 W	14710 N
Sampford Kentisbeare	Wherry Farm	10 28 39 SW 0 2 54 SW	170142 W	62966 N
Sampford Wherry Farm	Upcot Pen	8 18 14 SW 27 8 8 SE	169178 W	61083 N
Sampford Upcot Pen	Woolford Lodge	12 7 23 SE 48 40 30 SE	154194 W	47911 N
Woolford Lodge Upcot Pen	Hembury Fort	83 4 29 NW 20 35 52 SE	164701 W	49190 N
Hembury Fort Woolford Lodge	North Ottery Moor	16 19 39 SE 12 55 36 SW	158644 W	28522 N
Hembury Fort North Ottery Moor	South Ottery Moor	0 48 37 SE 19 58 29 SW	165248 W	10354 N
South Ottery Moor North Ottery Moor	West Ottery Moor	55 6 31 NW [illegible]	181493 W	21684 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		′ ″	Feet.	Feet.
Huntspill Steeple -	Berrow Steeple -	9 15 11 NW 72 39 11 NW	106334 W	212082 N
Brent Knoll -				
Huntspill Steeple -	Burnham Steeple -	0 59 11 NW 66 37 49 SW	102823 W	202085 N
Brent Knoll -				
Huntspill Steeple -	Mark Steeple -	72 24 49 NE 52 14 11 SE	77710 W	197059 N
Brent Knoll -				
Huntspill Steeple	Woolavington Steeple	48 54 11 SE 4 45 11 SE	883329 W	176721 N
Brent Knoll -				
Huntspill Steeple -	North Petherton Steeple	6 13 15 SW 30 59 45 SE	107056 W	148284 N
Cannington -				
North Petherton Steeple	Weston in Zoyland Steeple -	73 30 15 NE 62 7 45 SE	86952 W	154238 N
Cannington -				
North Petherton Steeple	Burrow Mount Chapel	70 30 45 SE 49 2 45 SE	84424 W	140274 N
Cannington -				
Huntspill Steeple -	Enmore Steeple -	31 52 15 SW 6 34 15 SW	123651 W	155311 N
Cannington -				
Brompton Ralph -	Black Hill - -	56 48 27 NW 12 38 33 NE	206783 W	168592 N
Haddon Beacon -				
Black Hill -	Lype Hill -	56 54 33 SW 7 54 27 NW	218634 W	160869 N
Haddon Beacon -				
Black Hill -	Grabbist Hill -	39 11 57 NW 2 8 27 NW	219508 W	184192 N
Lype Hill -				
Black Hill -	St. Decuman's Steeple	66 51 33 NE 83 3 57 SE	181189 W	179531 N
Grabbist Hill -				
Black Hill -	Minehead Steeple	15 35 57 NW 35 18 3 NE	213508 W	192666 N
Grabbist Hill -				
Grabbist Hill -	Cutcombe Steeple -	18 43 33 SW 42 56 27 NW	225672 W	167783 N
Lype Hill -				
Haddon Hill -	Heydon Hill -	86 48 45 SE 31 19 5 SW	190325 W	131649 N
Brompton Ralph -				
Heydon Hill -	Bampton -	40 49 15 SW 21 15 45 SE	206806 W	112570 N
Haddon Beacon -				
Bampton -	Honiton Down -	80 52 45 SE 47 15 45 SE	189659 W	109818 N
Haddon Beacon -				
Bampton -	Bampton Tree -	78 34 45 NW 19 35 5 SW	221006 W	115440 N
Haddon Beacon -				
Bampton Tree -	West Anstey -	56 13 55 NW 89 37 55 NW	247601 W	133224 N
Haddon Beacon -				
Bampton Tree -	Dulverton Station -	36 6 55 NW 79 1 5 SW	231460 W	129772 N
Haddon Beacon -				
Heydon Hill -	Brompton Regis -	68 48 45 NW 19 53 45 NW	218174 W	142445 N
Haddon Beacon -				
Bampton -	Morebath Steeple -	49 32 45 NW 67 15 45 NW	217030 W	121288 N
Honiton Down -				
Dulverton Station -	Dulverton Steeple -	60 18 9 SW 41 39 55 NW	232985 W	128904 N
Bampton Tree -				
Bampford -	Holcombe Rogus -	69 51 14 NW 54 11 13 NW	183365 W	101771 N
Culmstock -				
Culmstock -	Uffculme Steeple -	59 33 21 SW 21 49 55 NW	180941 W	80080 N
Gaddon Hill -				

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bagborough -	Wellington Steeple	9 29 1 SW	155796 W	108143 N
Staple Hill -		67 31 32 NW		
Bagborough -	St. Mary's, Taunton	31 20 35 SE	127025 W	120511 N
Staple Hill -		8 51 49 NW		
Staple Hill -	Cothelstone Lodge	17 56 47 NW	139939 W	146927 N
Bagborough -		45 10 47 SE		
Staple Hill -	Lady Chatham's Obelisk	57 44 27 NE	78423 W	122690 N
Bagborough -		65 8 23 SE		
Brompton Ralph -	Bishop's Lydiard -	67 41 44 SE	147093 W	137297 N
Bagborough -		2 53 5 SE		
Brompton Ralph -	Wiveliscombe Steeple	10 59 58 SE	175011 W	130234 N
Bagborough -		47 35 5 SW		
Wellington Steeple	Milverton Steeple -	21 28 32 NW	162178 W	124366 N
Staple Hill -		52 45 32 NW		
Bagborough -	Combe Florey Steeple	20 20 55 SW	153120 W	141070 N
Brompton Ralph -		70 10 54 SE		
Wellington Steeple	Norton Fitzwarren -	47 25 28 NE	37623 W	124839 N
Milverton Steeple -		88 53 28 NE		
Wellington Steeple	Langford Budville	12 41 28 NE	153247 W	119460 N
Milverton Steeple -		61 13 32 SE		
Wellington Steeple	Buckland Steeple -	82 48 32 SE	145118 W	106794 N
Milverton Steeple -		44 9 32 SE		
Wellington Steeple	Hill Farence -	35 2 28 NE	17184 W	120424 N
Milverton Steeple -		75 16 32 SE		
Castlineroach -	Fivehead Steeple -	48 46 43 NE	85394 W	115977 N
Staple Hill -		60 20 18 NE		
Castlineroach -	Curry Mallet Steeple	50 39 32 NE	92465 W	108631 N
Staple Hill -		65 15 42 NE		
Castlineroach -	West Hatch Steeple	14 51 32 NE	108366 W	108857 N
Staple Hill -		45 39 3 NE		
Castlineroach -	Ilton Steeple -	78 37 59 NE	86456 W	97221 N
Staple Hill -		85 50 59 NE		
Castlineroach -	Thorne Falcon Steeple	8 6 59 NE	109096 W	118316 N
Staple Hill -		30 18 59 NE		
Culmstock -	Columpton Steeple -	47 40 34 SW	194455 W	62856 N
Kentesbeer -		74 30 41 SW		
Hembury Fort -	St. Mary Ottery Steeple	10 7 52 SW	169032 W	24946 N
North Ottery Moor		71 0 6 SW		
Hembury Fort -	Bradninch Steeple -	84 26 35 NW	201791 W	52798 N
North Ottery Moor		60 38 5 NW		
North Ottery Moor	Honiton Chapel -	38 45 5 NE	147802 W	42032 N
Hembury Fort -		67 2 24 SE		
Dumpdon -	Widworthy -	37 19 18 SE	130745 W	35592 N
Harner Hill -		47 25 42 SW		
Widworthy -	Hawk Church -	82 4 42 NE	88906 W	41412 N
Harner Hill -		80 54 18 SE		
Widworthy -	Beer Signal Staff -	2 3[illegible] 18 SE	29208 W	884 N
Harner Hill -		12 3[illegible] 42 SW		
Christcross -	Newton St. Cyrus Steeple -	48 50 58 SW	141008 W	32417 N
Whitestone -		22 3 36 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Christcross -	Gernseys Gazebo -	72 40 24 NE	168586 W	70421 N
Whitestone -		57 32 54 NE		
Christcross -	Woodbury Signal Staff	18 16 29 SE	185977 W	22578 S
Whitestone -		53 23 3 SE		
Black Down -	Ninebarrow Down -	81 27 12 SE	125374 E	18843 S
Bullbarrow -		42 28 53 NW		
Ninebarrow Down	Wingreen -	10 31 28 NW	101588 E	109190 N
Bullbarrow -		43 58 8 NE		
Wingreen - -	Trinity Steeple, Shaftsbury -	70 19 50 NW	80662 E	16684 N
Bullbarrow -		25 15 10 SW		
Wingreen -	Duncliffe Hill -	79 16 50 NW	69067 E	15347 N
Bullbarrow -		15 26 10 NE		
Wingreen -	Melbury Hill -	79 27 10 SW	84606 E	106030 N
Bulbarrow -		33 38 10 NE		
Wingreen -	Badbury Rings -	12 56 50 SE	114868 E	51400 N
Bullbarrow -		82 28 50 SE		
Wingreen -	Ringwood Steeple -	55 40 0 SE	174246 E	59564 N
Bullbarrow -		89 57 50 NE		
Wingreen -	Horton Gazebo -	37 36 0 SE	136518 E	63832 N
Bullbarrow -		87 0 0 NE		
Wingreen -	Bellchalwell Telegraph	45 9 10 SW	60882 E	68700 N
Trinity Steeple -		22 21 40 SW		
Wingreen -	Hamilton Hill -	46 8 40 SW	74932 E	83578 N
Trinity Steeple -		9 45 10 SW		
Wingreen -	West Knoyle Steeple	28 52 50 NW	79833 E	148630 N
Trinity Steeple -		1 24 50 NW		
Wingreen -	Kingsettles -	50 24 50 NW	82259 E	25172 N
Trinity Steeple -		10 55 10 NE		
Wingreen -	Pen Selwood Steeple -	57 54 10 NW	45897 E	144118 N
Bradley Knoll -		25 11 50 SW		
Wingreen -	Alfred's Tower -	51 32 10 NW	42303 E	156283 N
Bradley Knoll -		57 43 50 SW		
Wingreen -	Fonthill Abbey -	4 5 10 NW	99165 E	143074 N
Bradley Knoll -		63 40 10 SE		
Wingreen -	Blandford Telegraph	0 31 10 SW	101250 E	71876 N
Bellchalwell Telegraph		85 30 10 NE		
Trinity Steeple -	Gillingham Steeple	57 4 50 NW	62478 E	128431 N
Bullbarrow -		7 18 10 NE		
Horton Gazebo -	Pistle Down Telegraph	54 50 0 NE	156801 E	78122 N
Wingreen -		60 38 0 SE		
Wingreen -	Chalbury Telegraph	34 23 20 SE	132225 E	64426 N
Badbury Rings -		53 5 50 NE		
Badbury Rings -	Wimborne Steeple -	55 58 10 SE	129557 E	41485 N
Chalbury Telegraph		6 37 50 SW		
Wingreen -	Pentridge Hill -	73 13 0 SE	139181 E	97852 N
Pistle Down Telegraph		41 46 0 NE		
Trinity Steeple -	Sturminster Steeple	38 43 10 SW	56763 E	86923 N
Bullbarrow -		6 29 10 NE		
Wingreen -	Caishmoor Mill -	40 41 0 SE	110781 E	86862 N
Pentridge Hill -		59 9 0 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Wingreen -	Cranborne Steeple	36 0 SE	144148 E	85209 N
Pentridge Hill -		27 0 SE		
Wingreen -	Wardour Castle -	13 10 NE	102387 E	129830 N
Kingsettles -		58 10 NE		
Trinity Steeple	Mere Steeple -	50 50 NW	63876 E	147085 N
Gillingham Steeple		17 10 NE		
Trinity Steeple -	Hinton Steeple, *Dorset*	55 10 SW	56316 E	93954 N
Sturminster Steeple		37 50 NW		
Trinity Steeple	Iwerne Minster -	3 50 SE	83088 E	88846 N
Hinton Steeple -		11 50 SE		
Wingreen -	Christ Church -	17 20 SE	179351 E	17461 N
Ninebarrow Down		4 30 NE		
Ninebarrow Down	Poole Steeple -	19 40 NE	129630 E	10246 N
Christ Church		44 30 SW		
Black Down -	Wareham Steeple -	34 50 SE	102508 E	750 S
Ninebarrow Down		38 50 NW		
Christ Church -	Brownsea Castle -	53 30 SW	137005 E	1120 N
Ninebarrow Down		14 0 NE		
Christ Church -	Poole Heath -	8 0 SW	142022 E	12966 N
Brownsea Castle		58 30 NE		
Christ Church -	Stutland Signal Staff	34 0 SW	141641 E	19512 S
Poole Heath -		40 0 SW		
Black Down -	Wyke Regis Steeple -	57 30 SE	16321 E	32088 S
Ninebarrow Down		4 30 SW		
Black Down -	Dorchester Steeple. -	57 10 NE	25974 E	10521 N
Ninebarrow Down		32 30 NW		
Black Down -	Ridgeway Station -	35 50 SE	21890 E	6030 S
Dorchester Steeple		51 40 SW		
Black Down -	Portland Lighthouse	38 50 SE	21563 E	60396 S
Ridgeway Station -		20 40 SW		
Ridgeway Station -	Lulworth Flagstaff -	59 0 SE	53951 E	21677 S
Dorchester Steeple		59 20 SE		
Black Down -	Godmanstone Down -	36 40 NE	12410 E	28391 N
Dorchester Steeple		11 50 NW		
Black Down -	Aggerdon Hill -	23 20 NW	21314 W	21027 N
Godmanstone Down		41 10 SW		
Black Down -	Abbotsbury Signal Staff	23 40 SW	17569 W	4578 S
Aggerdon Hill -		19 20 SW		
Abbotsbury, Sta	Shipton Beacon -	8 20 NW	35022 W	14711 N
Aggerdon Hill		15 40 SW		
Shipton Beacon	Puncknoll. -	2 20 SE	25740 W	437 N
Aggerdon Hill		7 40 SW		
Bullbarrow	Wincanton Steeple -	42 50 SW	31148 E	134392 N
Duncliffe Hill		19 50 NW		
Trinity Steeple	Henstridge Steeple -	30 10 SW	35240 E	105791 N
Hinton Steeple		40 50 NW		
Pilsdon Hill	Montacute's Signal Staff	1 40 NE	39912 W	96134 N
Mintern -		10 20 NW		
Pilsdon Hill -	Pen Hill - -	43 40 NE	32182 W	69515 N
Montacute's Signal Staff		11 20 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Pilsdon Hill -	Barrow Hill -	0 11 20 NW	65980 W	106259 N
Montacute's Staff -		68 47 20 NW		
Barrow Hill -	South Petherton -	29 15 20 SE	59846 W	95283 N
Montacute's Staff -		87 32 40 SW		
Mintern -	Newton Summer House	41 0 20 NW	17204 W	91144 N
Ash Beacon -		40 39 40 SW		
Mintern -	Glastonbury Tor -	22 40 20 NW	34311 W	187168 N
Ash Beacon -		38 48 50 NW		
Barrow Hill -	Ilchester Steeple -	74 2 10 NE	30275 W	116472 N
Montacute's Staff -		25 21 40 NE		
Pilsdon Hill -	Warren Signal Staff -	4 56 20 NW	68317 W	73365 N
Pen Hill -		83 55 20 NW		
Newton Summer House	Leweston Hill -	68 32 20 SE	1788 E	83677 N
Ash Beacon -		6 18 40 SW		
Leweston Hill -	Yetminster Steeple -	46 17 40 SW	6690 W	75572 N
Newton Summer House		34 1 20 SE		
Yetminster Steeple	Sherborne Steeple -	36 22 40 NE	7480 E	94808 N
Leweston Hill -		27 4 40 NE		
Newton Summer House	Yeovil Steeple -	43 22 20 NW	19208 W	93266 N
Leweston Hill -		65 27 20 NW		
Pilsdon Hill -	Broad Windsor -	57 31 40 NE	57945 W	48937 N
Warren Signal Staff -		23 0 20 SE		
Pilsdon Hill -	Winyard's Gap -	60 16 40 NE	39825 W	58769 N
Warren Signal Staff -		62 52 20 SE		
Winyard's Gap -	Crewkerne Steeple -	52 34 20 NW	57554 W	72337 N
Warren Signal Staff -		84 32 20 SE		
Beacon Hill -	Clay Hill Barrow -	86 56 50 NW	72590 W	188636 N
Bradley Knoll -		35 23 10 NE		
Bradley Knoll -	Milk Hill -	49 59 20 NE	159541 E	251938 N
Beacon Hill -		23 25 0 NW		
Bradley Knoll -	Frome Spire -	5 22 50 NW	52390 E	198267 N
Clay Hill Barrow -		64 29 50 NW		
Bradley Knoll -	Whatley Spire -	28 1 50 NW	38243 E	197178 N
Clay Hill Barrow -		76 1 50 NW		
Bradley Knoll -	Leigh Steeple -	44 35 50 NW	24550 E	196094 N
Clay Hill -		81 10 50 NW		
Bradley Knoll -	Buckland Steeple -	13 17 50 NW	45011 E	209279 N
Clay Hill -		53 10 50 NW		
Milk Hill -	Red Horn Clump -	23 58 0 SW	146689 E	223025 N
Beacon Hill -		46 36 0 NW		
Milk Hill -	Pewsey Steeple -	55 26 0 SE	178920 E	230502 N
Red Horn, Clump -		64 14 0 NE		
Milk Hill -	Devizes Steeple -	75 58 0 SW	127153 E	243841 N
Red Horn Clump -		43 11 0 NW		
Red Horn Clump -	Chittern Windmill -	30 22 0 SW	125890 E	187518 N
Beacon Hill -		85 24 0 NW		
Clay Hill -	Steeple Ashton -	28 39 10 NE	94569 E	228840 N
Milk Hill -		70 25 30 SW		
Steeple Ashton -	Seend Steeple -	44 9 30 NE	106641 E	241262 N
Milk Hill -		78 35 10 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Steeple Ashton -	Hinton Steeple, *Somerset* -	85 9 50 NW	51932 E	232449 N
Clay Hill -		25 14 50 NW		
Bradley Knoll -	White Horse New Station -	38 42 0 NE	92271 E	210468 N
Beacon Hill -		73 55 0 NW		
White Horse -	Trowbridge Spire -	33 42 0 NW	78090 E	231726 N
Bradley Knoll -		18 34 0 NE		
White Horse -	Farley Clump -	36 1 0 NW	58846 E	256439 N
Bradley Knoll -		2 3 0 NE		
Farley Clump -	Melksham Steeple	80 12 0 SE	93232 E	250499 N
White Horse -		1 23 0 NE		

Meridian of Butterton Hill.

Butterton Hill -	Rippon Tor New Station	26 51 33 SE	28516 E	56308 N
Rippon Tor Old Station		17 25 37 NW		
Rippon Tor New Station	Horner Down -	5 56 3 SE	35873 E	14467 S
Butterton Hill -		68 2 13 SE		
Horner Down -	Denbury -	18 30 37 NE	52015 E	33753 N
Rippon Tor -		46 10 18 SE		
Horner Down -	Church Stow -	31 3 17 SW	19746 E	41255 S
Butterton Hill -		25 34 23 SE		
Horner Down -	Morleigh Camp -	30 25 38 SE	40145 E	21745 S
Butterton Hill -		61 33 38 SE		
Rippon Tor -	Totness Steeple -	21 40 18 SE	47998 E	7280 N
Denbury -		8 37 42 SW		
Totness Steeple -	Marldon Beacon -	73 18 2 NE	66332 E	12780 N
Denbury -		34 19 18 SE		
Totness Steeple -	Willman Hill -	79 48 58 SE	64899 E	4244 N
Marldon Beacon -		9 31 32 SW		
Horner Down -	Higher East Close -	81 5 53 SE	61180 E	18433 S
Rippon Tor -		23 36 23 SE		
Horner Down -	Bigbury Spire -	51 10 57 SW	5080 E	39242 S
Butterton Hill -		7 22 43 SE		
Horner Down -	Marlborough Spire	20 27 18 SW	18404 E	61298 S
Butterton Hill -		16 42 32 SE		
Marlborough Spire	Portlemouth -	72 25 26 SE	32292 E	65685 S
Church Stow -		27 11 26 SE		
Butterton Hill -		26 11 8 SE		
Butterton Hill -	Kingston Steeple -	9 5 7 SW	5713 E	35723 S
Bigbury -		71 57 3 NW		
Portlemouth -	Charleton Steeple -	0 13 34 NE	32347 E	51712 S
Church Stow -		50 10 16 SE		
Church Stow -	Buckland Tout Saints	86 22 44 SE	34418 E	40326 S
Portlemouth -		4 46 54 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Portlemouth -	Marlborough Station	67 26 26 NW	14844 E	58435 S
Church Stow -		15 55 24 SW		
Marlborough Station	West Allington Steeple	39 28 4 SE	23639 E	47752 S
Portlemouth -		25 46 16 NW		
Portlemouth -	South Pool Station -	63 21 44 NE	42984 W	60325 S
Church Stow -		50 37 36 SE		
South Pool Station -	Chivelstone Station -	6 36 36 SE	43339 E	63392 S
Portlemouth -		78 16 24 NE		
Chivelstone Station -	Salcombe Chapel -	89 43 26 SW	29525 E	63325 S
Portlemouth -		49 34 36 NW		
Morleigh Camp -	Wallaton Cross -	20 32 0 SE	44095 E	32290 S
Higher East Close -		51 3 40 SW		
Wallaton Cross -	Black Aston -	34 0 50 NE	49674 E	24024 S
Morleigh Camp -		76 32 50 SE		
Butterton Hill -	Holland Hill -	26 24 8 SW	8104 W	16330 S
Hemerdon Ball -		54 3 52 SE		
Holland Hill -	Modbury Spire -	51 35 52 SE	762 E	23353 S
Butterton Hill -		1 52 6 SE		
Holland Hill -	Ugborough Spire -	66 5 8 NE	7471 E	9419 S
Butterton Hill -		38 25 16 SE		
Brent Tor -	Cock's Tor -	56 20 25 SE	42396 W	56524 N
Black Down -		30 22 25 SE		
Brent Tor -	Kit Hill New Station	45 8 35 SW	93041 W	39295 N
Cock's Tor -		71 12 35 SW		
Cock's Tor -	St. Budeaux Steeple	22 44 35 SW	65899 W	444 N
Kit Hill -		34 56 15 SE		
St. Stephens Down -	Bradbury Castle -	58 22 54 NE	59524 W	120224 N
Black Down -		9 12 30 NW		
Cawsand Beacon -		76 38 4 NW		
St Stephens Down -	Warbstow Barrow -	71 19 8 NW	152334 W	101118 N
Bradbury Castle -		78 22 5 SW		
St. Stephens Down -	Bratton Clovelly -	67 16 44 NE	65678 W	107224 N
Bradbury Castle -		25 20 15 SW		
St. Stephens Down -	Ashwater -	35 15 58 NE	91168 W	117735 N
Bradbury Castle -		85 30 44 SW		
St. Stephens Down -	North Tamerton Steepl	5 24 35 NW	115899 W	123988 N
Warbstow Barrow -		57 53 7 NE		
Warbstow Barrow -	Beacon Moor, Holsworthy -	53 53 54 NE	91760 W	145295 N
St. Stephens Down -		19 44 34 NE		
Warbstow Barrow -	Kilkhampton	12 59 38 NE	136566 W	169451 N
St. Stephens Down -		16 25 9 NW		
Warbstow Barrow -	Holsworthy Steeple	45 59 18 NE	106027 W	145855 N
St. Stephens Down -		6 18 5 NE		
St. Stephens Down -	Bridgerule Steeple	14 13 49 NW	126468 W	142885 N
Warbstow Barrow -		31 46 11 NW		
Cawsand Beacon -	Great Haldon	76 59 7 SE	73280 E	89204 N
Rippin Tor -		53 27 48 NE		
Great Haldon -	Palk's Tower	49 39 32 NW	69876 E	92095 N
Rippin Tor -		48 54 38 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bradbury Castle -	Beacon Moor -	44 29 47 NE 11 32 9 SW	7762 E	188702 N
Cawsand Beacon -				
Cawsand Beacon -	Spreyton -	48 22 26 NE 85 54 21 NE	10558 E	125241 N
Bradbury Castle -				
Cawsand Beacon -	Winckley Steeple -	3 7 29 NW 49 0 9 NE	11611 W	161866 N
Bradbury Castle -				
Cawsand Beacon -	Hatherleigh Station	34 19 49 NW 37 3 26 NE	37155 W	149842 N
Bradbury Castle -				
Cawsand Beacon -	West Morchard Steeple	39 8 37 NE 28 14 47 NW	34460 E	161170 N
Great Haldon -				
Hatherleigh Station -	High Hampton Steeple	89 3 19 SW 2 29 35 NE	58245 W	149494 N
Bradbury Castle -				
Holsworthy -	Pancras Week Steeple	69 17 45 NW 8 5 33 NW	121569 W	151730 N
St. Stephen's -				
Bradbury Castle -	Budleigh Steeple -	60 3 26 NE 4 28 37 NE	5290 W	151463 N
Cawsand Beacon -				
Bradbury Castle -	North Tawton, Steeple	70 13 51 NE 13 33 27 NE	661 W	141386 N
Cawsand Beacon -				
Cawsand Beacon -	Zeal Monachorum -	32 16 2 NE 15 17 26 NE	17012 E	148838 N
Spreyton -				
Cawsand Beacon -	Downe St. Mary Steeple	38 2 3 NE 38 1 27 NW	24900 E	151071 N
Great Haldon -				
High Hampton -	Petrock Stowe -	45 54 19 NE 42 43 31 NW	50863 W	164687 N
Hatherleigh -				
Bradbury Castle -	Belleview -	7 48 48 NE 72 50 53 NW	47773 W	205840 N
Beacon Moor -				
Belleview -	Langtree Steeple	48 59 8 SW 10 43 39 NW	71787 W	184956 N
Bradbury Castle				
Belleview -	Cotten Hill -	34 26 10 NE 41 0 27 NW	29860 W	231965 N
Beacon Moor -				
Belleview -	Span Head -	52 25 54 NE 9 5 58 NE	18690 E	256963 N
Beacon Moor -				
Beacon Moor -	Northmolton Ridge	26 13 22 NE 48 52 17 SE	34556 E	243109 N
Span Head -				
Beacon Moor -	Thelbridge Steeple	68 45 13 SE 3 39 47 SE	38814 E	176628 N
Northmolton Ridge				
Beacon Moor -	Puddington Steeple	70 13 55 SE 15 19 5 SE	54014 E	172078 N
Northmolton Ridge -				
Beacon Moor	Paracombe Station -	0 9 37 NW 27 23 26 NW	7508 E	278549 N
Span Head -				
Paracombe -	Heanton Steeple -	66 48 33 SW 54 35 47 NW	56701 W	251042 N
Cotten Hill -				
Paracombe -	Northam Steeple -	58 45 44 SW 73 19 57 SW	73682 W	229306 N
Span Head -				
Paracombe -	Hangman Hill -	66 34 43 SW 4 16 25 NE	25350 W	292779 N
Cotten Hill -				
Cotten Hill -	Harwood Steeple -	75 24 10 SW 23 11 50 NW	56042 W	225144 N
Belleview -				
Belleview -	Parkham Steeple -	87 31 10 SW 59 54 10 SW	92701 W	203895 N
Harwood Steeple -				

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cotten Hill -	Atherington Steeple	9 5 50 SE	26489 W	210910 N
Harwood Steeple -		64 16 50 SE		
Span Head -	Mary Ansleigh Steeple	5 56 20 SE	23715 E	208662 N
Northmolton Ridge		17 28 20 SW		
Span Head -	Kingsnympton Spire	14 42 20 SW	3651 E	199656 N
Northmolton Ridge		35 25 20 SW		
Span Head -	Knowstone Steeple -	61 28 40 SE	66889 E	230771 N
Northmolton Ridge		69 6 50 SE		
Span Head -	Castle, Castle Hill	35 14 40 SW	360 W	230000 N
Northmolton Ridge -		69 25 20 SW		
Span Head -	Chittlehampton Steeple	39 16 10 SW	12020 W	219378 N
Northmolton Ridge -		62 59 10 SW		
Span Head -	Saterleigh Gazebo -	21 40 30 SW	36 W	209845 N
Northmolton Ridge		46 7 20 SW		
Span Head -	Southmolton Steeple	8 17 50 SW	13484 E	221258 N
Northmolton Ridge		43 57 40 SW		
Northmolton Ridge	East Anstey Steeple	57 20 30 SE	63689 E	224436 N
Southmolton Steeple		86 22 40 NE		
Beacon Moor -	Warkleigh Steeple -	38 57 30 NW	9693 W	210288 N
Northmolton Ridge		53 26 10 SW		
Beacon Moor -	Witheridge -	83 33 20 SE	43765 E	184635 N
Northmolton Ridge		8 56 50 SE		
Beacon Moor -	Chawleigh Steeple -	29 26 30 SE	14001 E	177648 N
Thelbridge Steeple -		87 38 40 NW		
Beacon Moor -	Chumleigh Steeple -	18 33 40 SW	5619 E	182325 N
Thelbridge Steeple		80 15 40 NW		
Beacon Moor -	Coldridge Steeple -	4 36 20 SE	9987 E	161081 N
West Morchard -		89 45 10 NW		

Meridian of St. Agnes Beacon.

St. Buryan Steeple -	Levan Signal Staff -	44 46 12 SW	108914 W	98140 S
Sennen Steeple -		14 48 48 SE		
St. Buryan Steeple -	Pendennick Signal Staff	83 3 48 NW	116220 W	81768 S
Sennen Steeple -		45 29 48 SW		
Levan Signal Staff -	Titterdieu Signal Staff	75 41 12 NE	84770 W	91980 S
St. Buryan Steeple -		53 42 48 SE		
Pertinney -	Castle Dennis -	55 39 32 NE	71566 W	52960 S
Karnminnis -		12 0 8 SE		
Pertinney -	Tregonning Signal Staff	87 29 32 NE	31705 W	69692 S
Karnminnis -		55 41 38 SE		
Pertinney -	St. Michael's Mount	85 5 32 NE	61262 W	69337 S
Castle Dennis -		32 10 28 SE		
Pertinney -	St. Paul's Steeple	74 40 28 SE	77254 W	79064 S
Ludgvan Steeple -		31 53 32 SW		
Karnminnis -	Knill's Monument -	88 29 22 NE	61931 W	40392 S
Tregonning Signal Staff		45 53 38 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Karnminnis -	Gwinear Steeple -	85 47 38 SE	35955 W	43529 S
Tregonning Signal Staff		9 13 38 NW		
Karnminnis -	St. Hilary Spire -	64 57 8 SE	43504 W	55049 S
Tregonning Signal Staff		38 51 38 NW		
Karnbonellis -	Park Loughs Signal Staff	6 55 10 SW	10734 W	111239 S
Tregonning Staff		26 46 46 SE		
Karnbonellis -	St. Erme Steeple -	45 38 1 NE	44658 E	983 N
St. Agnes Beacon -		88 44 22 SE		
St. Erme Steeple -	St. Michael Penkeville Steeple -	10 53 29 SE	49499 E	24176 S
Karnbonellis -		67 54 31 NE		
St. Erme Steeple -	Probus Steeple -	70 19 19 SE	62206 E	5293 S
St. Michael Penkeville		33 56 31 NE		
St. Erme Steeple -	Trevidown -	48 59 41 NE	67269 E	20644 N
Probus Steeple -		11 2 41 NE		
Park Loughs Signal Staff	Cury Steeple -	14 31 44 NE	6557 W	95119 S
Tregonning Signal Staff		44 40 46 SE		
Cury Steeple -	Helston Down -	7 47 46 NW	8533 W	80682 S
Tregonning Signal Staff		64 36 46 SE		
Helston Down -	Helston Steeple -	39 46 46 NW	13930 W	74200 S
Tregonning Signal Staff		75 44 46 SE		
Karnminnis -	St. Ann's Summer House	61 20 58 NE	150 E	115 N
St. Agnes Beacon -		52 41 3 NE		

Meridian of Dunnose.

Beacon Hill -	Salisbury Spire -	22 6 34 SW	137645 W	163571 N
Dean Hill - -		68 52 6 NW		
Beacon Hill -	Stockbridge Hill, New Station -	67 17 6 SE	59732 W	181485 N
Dean Hill -		55 36 4 NE		
Stockbridge Hill -	Farley Monument -	19 53 46 SE	52333 W	161043 N
Dean Hill -		78 53 17 NE		
Farley Monument -	Lyndhurst Steeple -	27 22 17 SW	87582 W	92953 N
Dean Hill -		16 22 13 SE		
Farley Monument -	Town Hill Telegraph	23 8 43 SE	31004 E	11155 N
Dean Hill -		61 41 23 SE		
Farley Monument -	Heathcote's Pillar -	39 28 37 SW	76546 W	131753 N
Dean Hill -		55 54 23 SE		
Heathcotes Pillar -	Toot Hill Telegraph	72 55 23 NE	59741 W	126620 N
Dean Hill -		61 40 23 SE		
Heathcotes Pillar -	White Flood Clump	80 40 37 NE	11554 W	143106 N
Farley Monument -		66 15 23 SE		
Heathcotes Pillar -	Ayres Summer House	67 4 23 NW	114910 W	148020 N
Dean Hill -		75 1 37 SW		
Farley Monument -	Nettle Heath Clump	22 42 53 SE	28654 W	104486 E
Dean Hill -		58 37 23 SE		
Heathcote's Pillar -	Eling Steeple -	25 13 3 SE	64632 W	106647 N
Dean Hill -		42 8 23 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Heathcote's Pillar -	Ramsey Steeple -	59 31 57 NE	69724 W	135736 N
Eling Steeple -		9 55 53 SW		
Heathcote's Pillar -	Caddenham Station -	45 59 37 NE	63156 W	144600 N
Dean Hill -		81 30 23 SE		
Ayres Summer House	Branshaw Telegraph	10 8 23 SE	110125 W	121253 N
Heathcote's Pillar -		72 40 37 SW		
Farley Monument -	Ann's Hill Beacon -	79 18 23 SE	25848 W	156043 N
White Flood Clump -		47 51 23 NW		
Ann's Hill Beacon -	Longwood Barrow -	82 32 37 NE	13444 W	157668 N
White Flood Clump		7 24 23 NW		
Ann's Hill Beacon -	Winchester Cathedral	4 21 23 NW	26260 W	161449 N
Longwood Barrow -		73 33 23 NW		
Farley Monument -	Wickham Lodge Teleg	47 49 23 SE	9996 E	104573 N
Nettle Heath Clump		89 52 7 NE		
Farley Monument -	Winchester Hill -	69 40 53 SE	25340 E	132282 W
Wickham Lodge Teleg.		28 58 37 NE		
Winchester Hill -	Chalkdon Telegraph	58 26 23 SE	50008 E	117129 N
Wickham Lodge Teleg.		72 34 37 NE		
Winchester Hill -	Portsdown Telegraph	9 21 53 SE	33033 E	85649 N
Wickham Lodge Teleg.		50 35 53 SE		
Farley Monument -	Gander Down Summer House -	82 36 18 SE	6744 W	155127 N
White Flood Clump		21 47 27 NE		
Farley Monument -	Alresford Steeple -	79 34 2 NE	8620 E	172270 N
Gander Down Sum. Ho.		41 51 22 NE		
Chalkdon Telegraph	Stanstead Monument -	41 48 23 SE	69493 E	95342 N
Wickham Lodge Teleg.		81 10 53 SE		
Chalkdon Telegraph	Beacon Hill Telegraph	76 10 37 NE	79947 E	124496 N
Stanstead Monument		19 43 37 NE		
Chalkdon Telegraph	Hemsworth Chapel	16 59 23 SE	60392 E	83149 N
Beacon Hill Telegraph		25 18 37 SW		
Winchester Hill -	Froxfield Mill -	48 0 37 NE	52783 E	156383 N
Beacon Hill Telegraph		39 53 53 NW		
Froxfield Mill -	Binstead Spire -	21 14 7 NE	68992 E	198693 N
Beacon Hill Telegraph		8 23 53 NW		
Banstead Spire -	East Worldham Steeple	37 10 7 SW	2037 E	189523 N
Beacon Hill Telegraph		15 23 53 NW		
East Worldham Steeple	Bramshot Spire -	59 52 53 SE	92136 E	172068 N
Beacon Hill Telegraph		14 22 7 NE		
East Worldham Steeple	Alton Spire -	65 38 53 NW	51116 E	194464 N
Banstead Spire -		76 41 7 SW		
Beacon Hill -	Andover Steeple -	80 28 2 NE	64069 W	216162 N
Highclere Beacon -		39 36 42 SW		
Beacon Hill -	Danesbury Camp -	67 42 58 SE	78224 W	189596 N
Highclere Beacon		35 11 2 SW		
Beacon Hill - -	Windmill Hill, Dummer	86 8 22 NE	13891 E	215800 N
Highclere Beacon -		51 18 38 SE		
Beacon Hill -	Popham Beacon -	88 32 2 NE	11374 W	209540 N
Highclere Beacon -		26 22 58 SE		
Popham Beacon -	Hannington Steeple	6 52 2 NE	6844 W	247122 N
Highclere Beacon -		76 23 8 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Popham Beacon Highclere Beacon -	Crawley Clump -	47 47 2 SW 4 50 2 SW	39015 W	184458 N
Danesbury Camp - Highclere Beacon -	Lord Portsmouth's House - -	49 8 2 NE 11 18 32 SW	39201 W	223359 N
Dean Hill - Highclere Beacon -	Walbury Camp -	20 56 31 NE 60 36 59 NW	59572 W	268360 N
Walbury Camp - Highclere Beacon -	Newbury Steeple -	60 35 1 NE 7 44 1 NE	28799 W	285712 N
Walbury Camp - Highclere Beacon -	Uphursthorne Mill -	5 58 1 SW 65 8 1 SW	62549 W	239880 N
Walbury Camp - Highclere Beacon -	Lord Carnarvon's Temple -	77 34 59 SE 4 49 59 NW	33954 W	262719 N
Danesbury Camp - Beacon Hill -	Windmill Hill, Luggershall -	29 25 58 NW 32 38 2 NE	102988 W	233483 N
Beacon Hill - Highclere Beacon -	Tidcombe Down -	36 48 2 NE 89 19 22 SW	85598 W	252876 N
Windmill Hill - Danesbury Camp -	Chute Steeple -	60 29 2 NE 7 44 58 NW	85540 W	243361 N
Windmill Hill - Beacon Hill -	Milk Hill -	46 40 58 NW 22 22 58 NW	148963 W	276835 N
Windmill Hill - Beacon Hill -	Red Horn Clump -	76 6 58 NW 45 34 58 NW	162342 W	248150 N
Windmill Hill - Red Horn Clump -	Lord Elbury's Monument -	6 20 58 NW 60 22 2 NE	108057 W	279031 N

Meridian of Greenwich.

Wendover - Kensworth -	Stanmore -	63 15 17 SE 25 33 36 SE	78374 W	52629 N
Pen Steeple - Stanmore -	Windsor Castle -	16 48 5 SE 49 0 35 SW	137374 W	2846 N
Kensworth - Stanmore -	Berkhampstead Gazebo	66 49 36 SE 45 41 54 NE	28002 W	101794 N
Harrow Spire - Beaconsfield Steeple	Hillingdon Steeple -	63 5 32 SW 58 49 28 SE	104291 W	21213 N
Windsor Castle - Pen Steeple -	Beaconsfield -	9 25 5 NW 39 32 5 SE	144445 W	45484 N
Beaconsfield - Windsor Castle -	Cookham Dean -	55 17 55 SW 52 7 5 NW	169700 W	27996 N
Windsor Castle - Cookham Dean -	Bray Steeple -	67 7 5 NW 32 17 5 SE	159523 W	12194 N
Bray Steeple - Cookham Dean -	Farnham Steeple -	64 56 55 NE 77 49 5 SE	139611 W	21500 N
Bray Steeple - Cookham Dean -	Cookham Steeple -	2 57 5 NW 71 16 55 NE	160497 W	31114 N
Bray Steeple - Cookham Dean -	Mount Pleasant Gazebo	5 2 55 NE 60 54 55 NE	157528 W	34766 N

Names of Stations and intersected Objects.		Bearing	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Mount Pleasant -	Shottesbrook Spire	35 44 55 SW	179471 W	4265 N
Bray Steeple -		68 21 55 SW		
St. Peter's, St. Alban's	Watford Spire -	20 55 40 SW	89572 W	64776 N
Stanmore -		42 40 36 NW		
Cookham Dean -	Nettlebed Windmill	78 22 5 NW	224162 W	39208 N
Windsor Castle -		67 16 5 NW		
Nettlebed Windmill -	Ruscombe Steeple	39 28 45 SE	193554 W	2049 N
Windsor Castle -		89 11 1, SW		
Nettlebed Windmill -	Fawley Steeple -	82 55 45 SE	207380 W	37127 N
Ruscombe Steeple -		21 30 45 NW		
Nettlebed Windmill	Shiplake Steeple -	34 10 15 SE	203574 W	8878 N
Ruscombe Steeple -		55 43 15 NW		
Shiplake Steeple -	Henley Steeple -	4 29 15 NW	204 35 W	23676 N
Ruscombe Steeple		27 20 15 NW		
Quainton - -	Brill Spire -	53 4 58 SW	237040 W	126390 N
Kensworth -		82 33 28 SW		
Quainton - -	Aylesbury Steeple -	40 23 34 SE	184119 W	125001 N
Kensworth - -		75 19 5 SW		
Wendover -	Long Crindon Windmill	77 22 18 NW	22608[illegible] W	112614 N
Kensworth -		74 36 42 SW		
Bow Brickhill -	Wing Steeple -	16 51 38 SW	162518 W	153853 N
Lilleyhoe -		77 23 39 SW		
Bow Brickhill -	Wingrave Steeple -	17 23 35 SW	166752 W	141526 N
Lilleyhoe -		70 7 27 SW		
Long Crindon Windmill	Whitchurch Steeple	46 58 31 NE	188146 W	148205 N
Aylesbury Steeple -		9 55 29 NW		
Long Crindon Windmill	Lousley Row Windmill	53 16 29 SE	184802 W	81818 N
Aylesbury Steeple		0 54 31 SW		
Long Crindon Windmill	Hadwell Barrow -	4 54 21 SE	223051 W	77280 N
Aylesbury Steeple		39 12 31 SW		
Hadwell Barrow -	Tame Steeple -	2 17 39 NE	222094 W	101182 N
Long Crindon Windmill		19 14 21 SE		
Quainton - -	Cobham's Pillar -	21 50 50 NW	227343 W	204635 N
Bow Brickhill -		79 27 3 NW		
Quainton -	Winslow Steeple -	18 12 20 NE	198641 W	170881 N
Cobham's Pillar -		40 22 25 SE		
Winslow Steeple -	Buckingham Spire -	49 24 25 NW	222564 W	191383 N
Cobham's Pillar -		19 49 25 SE		
Winslow Steeple -	Harwood Mill -	13 21 35 NE	195026 W	186108 N
Buckingham Spire -		79 9 25 SE		
Berkhampstead Gazebo	St. Peter's, St. Albans	89 40 44 SW	75525 W	101527 N
Stanmore -		3 20 4 NE		
Watford Spire -	Rickmansworth [illegible]re	68 45 54 SW	106020 W	58364 N
Stanmore -		78 14 36 NW		
Orwell -	Hardwick Sp[illegible] -	14 22 22 NE	2401 W	269291 N
Balsham Station -		73 7 8 NW		
Orwell - -	Orwell Pole -	52 43 22 SE	66 E	245224 N
Royston -		16 16 38 NE		
Orwell Pole -	Royston Steeple -	6 44 38 SW	4308 W	208233 N
Royston -		65 35 38 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Orwell Pole -	Croydon Steeple -	71 7 38 SW	17828 W	239107 N
Royston - -		10 7 22 NW		
Newmarket -	Streatham Spire -	53 15 20 SW	51548 E	322680 N
Ely Minster -		28 28 20 SW		
Newmarket -	Gog Magog Telegraph	60 4 40 SW	43403 E	251493 N
Ely Minster -		11 34 40 SW		
Newmarket -	Swaffham Steeple -	89 17 20 SW	69839 E	285539 N
Streatham Spire -		26 12 20 SE		
Streatham Spire -	Chatteris Steeple -	44 2 40 NW	12576 E	362969 N
Ely Minster -		66 43 40 NW		
Streatham Spire -	Sutton Steeple -	53 54 40 NW	30269 E	338192 N
Ely Minster -		83 34 20 SW		
Streatham Spire -	St. Ive's Steeple -	83 4 20 SW	17794 W	314256 N
Cottenham Steeple -		76 57 40 NW		
Chatteris Steeple -	March Spire -	14 18 20 NE	20490 E	394005 N
Ely Minster -		38 23 40 NW		
Sutton Steeple	Somersham Steeple -	84 32 10 NW	9 W	335296 N
Chatteris Steeple -		24 27 10 SW		
Sutton Steeple -	Warboys Spire -	84 52 40 SW	19353 W	342640 N
Chatteris Steeple -		57 31 50 SW		
Sutton Steeple -	Littleport Steeple -	57 33 20 NE	71278 E	364263 N
Ely Minster -		22 38 20 NE		
Warboys Spire -	Ramsey Steeple -	11 12 10 NE	22944 W	360768 N
Chatteris Steeple -		86 28 50 SW		
Ely Minster -	Wisbich Steeple -	13 18 40 NW	38032 E	442604 N
Chatteris Steeple -		17 43 50 NE		
Ely Minster -	Thorney Abbey -	45 35 40 NW	24652 W	425935 N
Wisbich Steeple -		74 58 20 SW		
Ely Minster -	Crowland Abbey -	43 15 40 NW	37335 W	447195 N
Wisbich Steeple -		86 30 40 NW		
Ely Minster -	Lynn Old Tower	12 56 20 NE	92769 E	476160 N
Wisbich Steeple -		58 29 20 NE		
Ely Minster -	Peterborough Cathedral	60 28 40 NW	54838 W	407859 N
Wisbich Steeple -		69 29 20 SW		
Ely Minster -	Downham Steeple -	19 1 20 NE	88774 E	419730 N
March Spire -		69 21 20 NE		
Peterborough -	Whittlesea Spire -	75 48 30 SE	28870 W	401292 N
Wisbich Steeple -		58 18 20 SW		
St. Ives Spire -	King's Bush -	58 34 20 SW	33199 W	303620 N
Cottenham Steeple		89 18 40 NW		
King's Bush -	Huntingdon Steeple	27 52 40 NW	41319 W	315189 N
St. Ives Steeple -		87 43 40 NW		
King's Bush -	Yelling Spire -	[illegible] 0 49 40 SE	34907 W	283608 N
Cottenham Steeple		[illegible] 53 20 SW		
Lilleyhoe -	Biggleswade Spire -	[illegible] 28 19 NE	59875 W	222454 N
Royston -		[illegible] 56 38 NW		
Biggleswade Spire -	Clay Hill Bush -	52 8 40 SE	33765 W	202160 N
Royston -		82 59 20 SW		
Clay Hill Bush -	Henlow Steeple -	87 41 40 NW	63668 W	203364 N
Biggleswade Spire		11 14 20 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Henlow Steeple -	Baldock Telegraph -	48 15 40 SE	39906 W	182164 N
Clay Hill Bush -		17 4 20 SW		
Biggleswade Spire -	North Hill Steeple -	61 56 40 NW	72537 W	229203 N
Henlow Steeple -		18 56 40 NW		
Biggleswade Spire	Blunham Steeple -	26 39 40 NW	70752 W	244119 N
North Hill Steeple		6 49 20 NE		
St. Ann's Hill -	Banstead Spire -	69 15 10 SE	45582 W	56816 S
Hanger Hill Tower -		16 46 0 SE		
St. Ann's Hill -	St. Ann's Clump -	74 32 50 SW	119860 W	28979 S
Banstead Spire -		69 27 20 NW		
St. Ann's Clump -	Pain's Hill Spire -	35 25 20 SE	101174 W	55253 S
Banstead Spire -		88 23 20 NW		
St. Ann's Clump -	Woking Monument -	3 57 40 SW	122110 W	61475 S
Pain's Hill Spire -		73 27 0 SW		
St. Ann's Clump -	Guildford Steeple -	9 53 40 SW	130248 W	88530 S
Pain's Hill Spire -		41 8 40 SW		

ART. V. *An Alphabetical List of the Latitudes and Longitudes of the principal Stations, together with several Church Steeples, Lighthouses, and other remarkable Objects.*

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.	Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″		° ′ ″	° ′ ″
Abergele Steeple -	53 17 10	3 34 13 W	Anstruther, East, Spire	56 13 40	2 41 24 W
Abbotsbury Signal Staff	50 40 30	2 36 54 W	ARRAN FOWWDDY	52 47 15	3 40 27 W
ABERYSTWITH STATION -	52 25 49	4 3 19 W	ARRENNIG -	52 55 3	3 43 55 W
Air Point, Lighthouse	53 21 28	3 18 35 W	Asaph, St. Cathedral	53 15 28	3 25 44 W
Alban's, St. (St. Peter's Steeple) -	50 45 19	0 19 31 W	ASHLEY HEATH -	52 55 10	2 22 13 W
ALNWICK MOOR -	55 25 12	1 45 35 W	Ashhurst Beacon -	53 33 59	2 44 40 W
Alresford Steeple -	51 5 27	1 9 21 W	Ashwater -	50 44 5	4 16 20 W
Alton Spire -	51 9 5	0 58 17 W	Ashwell Spire -	52 2 32	0 9 23 W
Amlwch Steeple -	53 23 0	4 19 17 W	Aspley Steeple -	52 0 59	0 37 29 W
Andover Steeple -	51 12 39	1 28 19 W	Atherington Steeple -	50 59 26	3 59 40 W
Annan Spire -	54 59 23	3 14 45 W	Aughton Spire -	53 32 34	2 54 31 W
ANN'S, ST. HILL, *Pem.*	51 41 39	5 8 53 W	AXEDGE -	53 14 0	1 56 27 W
Ann's St. Summer House	50 18 28	5 11 53 W	Axholme Steeple -	53 29 27	0 50 40 W
Ann's St. Lighthouse	51 40 59	5 9 19 W	Aylesbury Steeple -	51 49 3	0 48 41 W
Anstey, East Steeple	51 1 38	3 36 15 W	Ayre's Summer House	51 1 24	1 41 27 W
Anstey, West Steeple	51 2 51	3 36 44 W	BAGBOROUGH -	51 6 36	3 10 54 W
Anstruther, West, Spire	56 13 33	2 41 37 W	Baldock Telegraph -	51 58 36	0 10 35 W
			BALSHAM NEW STATION -	52 9 27	0 18 56 E

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Balsham Steeple -	52	8	13	0	20	3	E
Bambrough Castle Flag staff - -	55	36	42	1	42	8	W
Banstead Spire -	51	19	19	0	11	55	W
BAR BEACON -	52	34	23	1	54	12	W
BARDON HILL -	52	42	56	1	18	52	W
Barkston Spire -	52	54	26	0	50	24	W
BARNABY MOOR -	54	33	31	1	6	58	W
Bas Rock, highest point	56	4	53	2	37	47	W
Base on Misterton Carr							
NORTH END OF -	53	31	50	0	54	3	W
SOUTH END OF -	53	27	34	0	55	11	W
Base on Rhuddlan Marsh							
EAST END OF -	53	17	14	3	27	33	W
WEST END OF -	53	17	44	3	34	12	W
Bassingbourn Steeple -	52	4	49	0	3	31	W
Beacon Hill Telegraph	0	57	34	0	50	51	W
Beacons of Brecknock	51	53	4	3	25	26	W
Beaconsfield Spire -	51	36	3	0	38	0	W
Beadnell Spire -	55	33	33	1	37	44	W
Bebbington Spire -	53	20	55	2	59	32	W
Beckford Steeple -	52	1	17	2	1	41	W
Beer Signal Staff -	50	41	19	3	5	42	W
Bees, St. Head, Lighthouse - -	54	30	55	3	37	24	W
Bellchalwell Telegraph	50	52	32	2	16	36	W
BELLE FIELD HILL	53	21	16	2	34	16	W
Belleview - -	0	58	37	4	5	12	W
Belton Steeple -	53	32	56	0	48	56	W
Belton Spire -		46	2	1	19	38	W
Bennington Steeple -	53	33	15	2	11		W
Berrow Steeple -	51	16	3	3	0		W
BERULE (NORTH) -	54	18	5	4	22	43	W
Berwick upon Tweed Spire - -	55	46	21	1	59	41	W
BERYL HILL -	53	50	26	3	1	49	W
Bettws Einon Church	52	6	6	4	27	48	W
Bidston Lighthouse -	53	24	6	3	3	46	W
Bigbury Spire -	50	18	19	3	51	29	W
Biggleswade Spire - -	52	5	12	0	15	55	W
BILLINGE BEACON	53	30	29	2	42	22	W
Bingham Spire -	52	57	12	0	56	38	W
Binstead Spire -	51	9	46	0	53	37	W
Bispham Steeple -	53	51	29	3	1	32	W
Bishop and Clerks, Northmost Island	51	54	10	5	21	58	W
Bishop Wilton Spire -	53	59	16		47	6	W
Bishop's Lydiard -	51	3	43	3	10	37	W
Black Auton -	50	20	49	3	40	4	W
BLACK COMB -	54	15	33	3	16	8	W
BLACK HAMBLETON DOWN - -	54	18	29	1	14	35	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich			
	°	′	″		′	″	
Blackadder Tower -	55	46	35		13	27	W
BLACKHEDDON -	55	38	30		55	15	W
Blackrod Steeple -	53	35	44		34	33	W
BLAGDON - -	51	18	45		43	48	W
Blandford Telegraph	50	53	1		6	8	W
BLEASDALE FOREST	53	55	2		3	22	W
Bluhham Steeple -	52	8	46		18	50	W
Boldon, West, Spire -	54	56	44		26	46	W
Boothby Steeple -	53	7	7		31	24	W
BOTTESFORD -	52	56	57		47	19	W
Bottesford Spire -	52	56	40		47	45	W
Bottisham Steeple -	52	13	42	0	16	29	E
BOTTON HEAD -	54	24	28	1	4	87	W
BOULSWORTH HILL -	53	49	5	2	5	58	W
Bow Fell - -	54	26	59		9	15	W
Bradbury Castle -	50	44	31		8	10	W
BRADFIELD POINT -	53	26	35		35	38	W
Bradninch Steeple -	50	49	44		24	35	W
Bramshot Spire -	51	5	23	0	47	37	W
BRANDON WARREN	52	25	16	0	38	55	E
BRANDON DOWN -	54	45			40	13	W
Branshaw Telegraph	50	56			40	10	W
Branston Spire -	52	17			12	31	W
Bratton Clovelly -	0	42			9	44	W
Bray Steeple -	51	30			41	53	W
Brayton Spire -	53	46			4	44	W
Brechva Mountain -	51	56			8	40	W
Breedon on the Hill Steeple -	52	48	25	1	2	7	W
Breedon Spire -	52	1	52	2	6	34	W
Brenin Vawr -	51	59	1	4	36	0	W
BRENT KNOLL -	51	15	16	2	56	6	W
Bridgend Steeple -	51	30	30	3	34	9	W
Bridgerule Steeple -	50	48	10	4	25	30	W
Brill Spire -	51	49	10			46	W
BROGBOROUGH -	2	2	12		35	33	W
BROMPTON RALPH	1	5	48		18	56	W
Brompton Regis Steeple	1	4	26		29	7	W
BROWN CLEE HILL -	2	28	37	2	35	22	W
Brusselton Folly -	4	37	17	1	40	40	W
Buckingham Spire -	1	59	53	0	59	5	W
Buckland Tout Saints	0	18	8	3	43	59	W
Buckland Steeple -	1	15	38	2	20	37	W
Buckland Steeple -	0	58	42	3	10	2	W
Budeaux, St. Steeple -	0	24	49	4	9	42	W
Budleigh Steeple -	0	49	40	3	54	10	W
Burnham Steeple -		14	25	2	59	13	W
BURROW HILL -		15	15	1	8	7	W
Burrow Mount Chapel		4	16	2	54	20	W
Bwlch Mawr -		0	19	4	19	46	W
CADER IDRIS -	52	42		4	28	3	W

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″
Caldy Island, Woolhouse	51 37 56	4 39 58 W
CALF (THE) -	54 22 11	30 13 W
Cambridge, *Trinity Spire*	52 12 45	7 42 E
Trinity College Chapel	52 12 49	7 27 E
Great St. Mary's Steeple	52 12 43	7 34 E
Cannington -	51 9 32	4 4 W
CAPEL KYNON -	52 7 10	4 21 38 W
CAPELLANTE -	51 51 47	3 29 3 W
Cardigan Island, highest Point -	52 7 53	4 40 27 W
Cardigan Steeple -	52 4 59	4 38 18 W
Carlaveroc Castle -	54 58 41	3 30 41 W
Carmarthen, House at West end -	51 10	4 18 48 W
Carn Vawr -	37 24	3 30 6 W
Carnarvon's, Lord, Temple -	51 20 19	1 20 29 W
Carreg Glwydd -	51 50 44	3 48 52 W
Carrock Fell -	54 41 [illegible]	3 0 40 W
Castle Baith Steeple -	51 55 28	51 38 W
Castle Dennis -	50 9 [illegible]3	30 11 W
Castle Ring -	52 42	55 46 W
Castlinroach -	50 57 47	1 40 W
Cave Hill, Signal Staff	53 16 57	36 47 W
Caythorpe Spire -	53 1 38	0 35 51 W
CEFN BRYN -	51 34 50	4 56 19 W
Chalbury Telegraph	50 51 45	1 58 8 W
Chalkdon Telegraph	50 56 23	0 58 38 W
Charleton Steeple	50 1[illegible] 16	3 44 31 W
Chatteris Steeple -	52 28 19	[illegible] 3 22 E
Chawleigh Steeple -	50 53 58	3 49 [illegible] W
Cheltenham Steeple -	51 54 7	[illegible] 4 [illegible] W
Chester, Trinity Spire	53 26	2 53 [illegible] W
Chester-le-Street Spire	54 28	1 33 49 W
CHEVIOT (THE) -	5[illegible]	2 8 12 W
Chishall Steeple -	52 46	0 4 40 E
Chittlehampton Steeple	51 0 49	3 55 55 W
Christcross -	50 50 18	3 27 39 W
Chumleigh Steeple -	50 54 44	3 51 [illegible] W
Church Down Steeple	51 52 13	2 9 49 W
Church Stowe Steeple	50 17 59	2 27 19 W
Chute Steeple -	51 17 16	1 33 57 W
CLEEVE -	51 55 11	1 59 47 W
Cleeve Steeple -	51 56 54	0 W
Cobham's Pillar -	52 2 3	24 W
Coedana Church -	53 18 46	4 20 4 W
Cold Ashby Steeple -	52 23 34	1 1 24 W
Cold Fell Pike -	54 53 45	2 36 21 W
Cold Overton Steeple	52 41	0 47 55 W
Coldridg Steeple	50 51 14	3 50 12 W
Coleby Spire -	53 8 4	0 32 25 W

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″
COLLIER LAW -	54 46 2[illegible]	1 58 2 W
Columpton Steeple -	50 51 24	3 22 43 W
Combe Florey Steeple	51 4 19	3 12 12 W
Combe Rawleigh -	50 49 22	3 12 13 W
Coniston Fell -	54 22 20	3 6 34 W
Cookham Steeple -	51 33 3[illegible]	0 42 12 W
Coquet Island, Lighthouse -	55 20 11	3 11 47 W
Cothelestone Lodge	51 5 18	[illegible] 47 W
Coton Spire - -	52 13 1	3 59 E
COTTEN HILL -	51 [illegible] 54	0 35 W
Cottenham Spire -	52 18 25	8 27 E
CRADLE MOUNTAIN	51 57 7	3 6 39 W
Crail Spire -	5 58	2 36 55 W
Crail, High Building near - -	16 59	2 35 49 W
Cranborne Steeple -	55 9	1 55 0 W
Crewkerne Steeple -	53 7	2 47 17 W
CRIF-FELL -	56 44	3 36 55 W
ROPWELL BISHOP	54 17	1 0 9 W
Crosby Steeple -	29 33	3 0 55 W
CROSS FELL -	42 18	2 28 37 W
Crowland Abbey -	42	0 10 4 W
CROWLE BEACON -	36 36	0 49 4 W
Crowle Steeple -	36 30	0 49 49 W
Croydon Steeple -	7 57	0 4 45 W
Crunwell Steeple -	44 25	36 W
Culmstock -	50 55 45	15 20 W
Curry Mallet Steeple	50 59	56 23 W
Curry [illegible]le	50 2 49	13 36 W
Cutcombe Steeple -	51 8 35	3 31 9 W
CYRN Y BRAIN MOUNTAIN -	53 2 20	9 44 W
Daffenside Beacon -	54 49 27	30 47 W
Daniel's St. Spire -	51 40	54 1 W
Daventry Spire -	52 15 39	9 3 W
David's, St., Cathedral	51 52 56	14 53 W
Decuman's, St., Steeple	51 10 36	19 36 W
Denbury -	50 30 18	19 0 W
DENT HILL -	54 30 19	28 28 W
Derby Steeple	52 55 32	28 16 W
Devize's, St. John's Steeple -	51 21 15	1 59 6 W
Doddington Spire	53 0 40	0 43 50 W
Downe, St. Mary, Steeple	50 49 36	3 46 21 W
Downham Steeple -	52 37 36	0 23 54 E
Drax Spire -	53 43 49	0 58 17 W
Dulau Signal Staff -	55 55 5	2 13 12 W
Dulverton Steeple -	51 2 1	3 32 55 W
Dumpdon -	50 49 49	3 9 35 W
Dunchurch Steeple -	52 20 16	1 16 56 W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
Dunkery Beacon	51	9	48	3	34		W
Dunrigs (The) -	55	34	30	3	10		W
Dunse Spire -	55	46	50	2	19		W
Dunstanbrough Castle	55	29	36	1	35		W
Durham Cathedral -	54	46	31	1	34		W
Earl's Mount Obelisk	55	25	44	1	44		W
Easington Heights	54	33	59	0	50		W
Easington Steeple -	54	47	9	1	21		W
Eastham Spire -	53	18	50	2	57		W
East Worldham Steeple	51	8		1	11		W
Elbury's, Lord, Monument - -	51	22	56	1	39	54	W
Elden Hills, highest point - -	55	35	6	2	42	27	W
Elianus Point Signal Staff - -	53	25		4	16	20	W
Eling Steeple -	50	54		1	28	21	W
Elmo, St. Summer House	53	19		3	21	46	W
Ely Minster -	52	24		0	16	35	E
Embleton Steeple -	55	29		1	37	42	W
Enmore Steeple -	51	6		3	4	34	W
Epworth Steeple -	53	23		0	48	58	W
Eversden (Great) Steeple	52	8		0	0	20	E
Everton Flagstaff -	53	25		2	57	34	W
Exeter Cathedral	50	43		3	31	0	W
Farley Monument		3		1	25	12	W
Farnham Steeple		32		0	36	41	W
Fawley Steeple		34		0	54	32	W
Ferwig Steeple		6		4	38	1	W
Fivehead Steeple		0	1	2	54		W
Flatholmes Lighthouse - -	51	22	33	3	6	25	
Fonthill Abbey -	51	4	43	2	6	34	
Formby Point							
North W. Landmark	53	32	34	3	5	2	
South E. Landmark	53	32	23	3	3	18	
Foston Spire	53	56	53	0	46	21	
Gaddon Hill -	0	53	30	3	21	46	
Gander Down Summer House -	50	52	38	1	13	21	
Garreg Mountain	53	17	41	3	17	19	
Garth Hill -	51	32	35	3	16	55	
Gernsey's Gazebo -	50	52	41	3	16	3	
Gillingham Steeple -	51	2	20	2	16	8	
Glastonbury Tor -	51	8	43	2	41	19	
Glocester Cathedral -	51	52	3	2	14	15	W
Go Hill - -	53	33	51	2	53	55	W
Gog Magog Telegraph	52	9	59	0	11	34	E
Goldington Steeple -	52	1	16	0	36	58	W
Granby Steeple -	53	55	8	0	52	47	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
Granchester Steeple -	52	11		0	6	9	E
Grasholm Island -	51	43		5	47	1	W
Great Gavel -	54	29		3	12	30	W
Gringley on the Hill Steeple -	53	24		0	48	21	W
Gringley Beacon	53	24		0	52	53	W
Grisdale Pike -	54	35		3	14	57	W
Guildford Steeple -	51	14		0	34	0	W
Guilesborough Spire -	52	20		1	0	14	W
Gwaunysgaer Down	53	19		3	23	1	W
Gwynier Steeple -	50	11		5	21	6	W
Habchester Hill, Signal Staff -	55	49		2	4	54	W
Haddenham Spire	52	22	20	0	9	26	E
Haddon Beacon -	51	2	53	3	28	13	W
Haddon, West Steeple	52	20	30	1	4	16	W
Haldon Obelisk -	50	37	3	3	30	27	W
Halsall Spire	53	35	11	2	56	24	W
Hambleton Down	54	14	51	1	12	39	W
Hangman Hill -	51	12	54	3	59	23	W
Hannington Steeple	51	17	45	1	13	23	W
Hardwick Spire -	52	12	55	0	0	6	W
Harestone Steeple -	53	8	59	0	32	37	W
Harner Hill -	50	48	47	3	3	11	W
Hartland Point	51	1	22	4	30	26	W
Hartlepool Steeple -	54	41	49	1	10	31	W
Harwood Steeple -	51	1	45	4	7	21	W
Hatfield Spire	53		47	1	5	27	W
Hathersage	53		21	1	35	8	W
Haverfordwest Spire	51	48	12	4	57	11	W
Hawk Church -	50	48	1	2	55	22	W
Hawkestone Obelisk -	52	51	34	2	36	59	W
Headon Steeple -	2	2	22	0	5	39	E
Heanton Steeple -	1	6	0	4	7	33	W
Heathcote's Pillar -	50	58	46	1	31	28	W
Hedgehope -	55	28	28	2	4	54	W
Helbre Lighthouse -	53	23	34	3	10	13	W
Helkinton -	52	23	14	1	3	33	W
Helston Steeple -	50	6	15	5	15	29	W
Helvellin Mountain -	54	31	43	3	0	21	W
Hembury Fort -	50	49	12	3	14	58	W
Hemingbrough Spire -	53	46		0	58	26	W
Hemsworth Chapel -	50	50		0	55	58	W
Henley Steeple -	51	32		0	53	48	W
Henlow Steeple -	52	2		0	16	53	W
Henstridge Steeple -	50	58		2	23	13	W
Heswell Hill -	53	20		3	5	24	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
HIGH PIKE -	54	42	27	3	2	49	
HIGHGATE MOUNTAIN -	51	39	41	4	55	12	W
High Howland Steeple	53	35	32	1	34	45	W
High Hampton Steeple	50	49	19	4	7	52	W
Hilary, St. Steeple -	51	26	59	3	24	16	W
Hilary, St. Steeple, *Cornwall* -	50	9	23	5	23	2	W
HILL FARM -	51	57	56	0	37	13	W
Hill Farence -	51	1	2	2	36	50	W
Hillingdon Steeple -	51	32	6	0	27	24	W
Hinton Steeple, *Som.*	51	19	26	2	18	47	W
Hinton Steeple, *Dorset.*	50	56	40		17	46	W
Holcombe Rogus -	50	57	48		19	57	W
HOLLAND HILL -	53	1	56		6	27	W
HOLME MOSS -	3	32	23		52	32	W
Holsworthy Steeple -		48	41	4	20	13	W
HOLYHEAD MOUNTAIN -	53	18	51	4	39	27	W
Holy Island Castle Flagstaff -	55	40	20	1	46	38	W
Home Steeple -	3	54	38	0	32	15	W
Honiton Chapel -	50	48	3	3	10	36	W
HORSEMOOR HILL -	51	59	42	0	38	2	W
Howden Steeple -	53	44	46	1	12	26	W
Hubberston Steeple -	51	42	56	5	21	47	W
Hume Castle -	55	40	5	2	27	38	W
HUNSLEY BEACON -	53	47	59	0	34	20	W
Huntingdon Steeple	52	20	27	0	11	3	W
Huntspill Steeple -	51	12	19	2	59	8	W
Ilchester Steeple	51	0	23	2	40	14	W
Ilton Steeple -	50	57	11	2	54	48	W
INGLEBOROUGH HILL	54	10	4	2	23	18	W
Ives, St. Steeple -	52	20	19	0	4	45	W
Iwerne Minster -	50	55	49	2	10	49	W
Johnston Steeple -	51	45	17	4	58	41	W
Kelshall Steeple -	52	0	29	0	3	51	W
Kenfig Steeple -	51	31	26	3	42	26	W
Kentisbeare -	50	52	33	3	16	26	W
Kidwelly Spire -	51	44	15	4	17	22	W
Kilhope Law -	54	48	0	2	16	17	W
Kilkhampton Steeple	50	52	32	4	28	10	W
Kilrenny Spire -	56	14	17	2	40	35	W
Kilvey Windmill -	51	37	47	3	54	12	W
Kilvington Steeple -	52	52	28	0	51	46	W
Kilworth, South Steeple	52	28	44	1	9	23	W
Kilworth, North Steeple	52	26	39	1	5	23	W
Kingsettles -	51	1	47	2	11	0	W
Kingsnympton Spire	50	57	35	3	51	51	W
Kingston Steeple -	50	18	54	3	51	40	W
Kirby Spire -	53	5	55	1	15	48	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Kirkby Lonsdale Steeple	54	12	1	2	35	15	W
Knill's Monument -	50	11	4	5	27	44	W
Knoll Hill -	53	38	5	2	13	53	W
Knowstone Steeple -	51	2	40	3	35	24	W
Kritch Spire -	53	15	4	1	7	10	W
Kyloe Steeple -	55	39	36	1	54	39	W
Lancaster Steeple -	54	3		2	47	41	W
Langar Steeple -	52	55		0	51	27	W
Langford Budville -	51	0	46	3	12	11	W
Langtree Steeple -	50	55		4	11	24	W
LANNON -	51	45		4	8	9	W
Lannon Steeple -	51	45	2	4	6	3	W
Lansdown Monument	1	25	29	2	22	22	W
LARGO LAW -	56	14	15	2	54	52	W
Laugharne Steeple -	1	46	34	4	26	43	W
Leadenham Spire -	3	3	20	0	34	47	W
Leasowes Lighthouse	3	24	50	3	6	49	W
Ledbury Steeple -	52	2	16	2	24	38	W
LEDSTONE BEACON	3	46	31	1	18	47	W
Leigh Steeple -	1	13	28	2	25	58	W
Levan Signal Staff -	0	2	16	5	39	39	W
LINCOLN MINSTER	3	14	7	0	32	1	W
Litchfield Spire -	2	41	12	1	49	21	W
LITTLEPORT -	52	27	59	0	18	40	E
Littleport Steeple -	52	28	30	0	19	7	E
Little Brickhill Steeple	51	58	59	0	40	21	W
Liverpool, *St. Paul's*	3	24	40	2	58	55	W
Llaeithy Rock -	1	54	16	5	16	9	W
Llaleston Steeple -	1	30	23	3	36	29	W
Llandilo Steeple -	1	52	55	3	58	37	W
LLANDINAM MOUNTAIN -	2	25	15	3	25	26	W
Llandovery, St. Maryon the Hill -				3	44	22	W
LLANELIAN MOUNTAIN, *Denb.* -	3	15	23	3	43	2	W
LLANELIAN MOUNTAIN, *Ang.* -	3	24	4	4	16	55	W
Llanelian Spire -	3	24	42	4	17	13	W
Llanelly Steeple -	1	41		4	8	41	W
Llandonna Signal Staff	3	18	43	4	6	31	W
Llangadock Steeple -	1	56	23	3	52	11	W
LLANGEINOR MOUNTAIN - -		38	28	3	33	33	W
Llangynog Mountain		49	2	4	23	26	W
Llansaint Hill -		45	26	4	17	41	W
Llanstephan Castle -		45	57	4	22	25	W
Llantrissant Steeple -		32	32	3	21	50	W
Llanvihangel Penbedw Steeple - -	2	1	29	4	35	40	W
Llanwenog Steeple	2	5	16	4	11	0	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
LLWYDIART MOUNTAIN -	53	17	10	4	10	26	W
LOMOND TOP, *East*	56	14	44	3	12	33	W
LOMOND TOP, *West*	56	14	57	3	17	4	W
Long Bennington Steeple -	52	59	12	0	44	27	W
LONG MOUNT POLE	52	32	42	2	51	10	W
LONG MOUNTAIN -	52	38	44	3	4	35	W
LOOSEHOE MOOR -	54	24	11	0	54	54	W
LORD'S SEAT -	53	20	57	1	49	28	W
Loughborough Steeple	52	46	31	1	11	54	W
Loughton Spire -	53	23	21	1	13	7	W
Lowick Steeple -	55	39	12	1	58	28	W
Ludchurch Steeple	51	45	57	4	40	36	W
Lulworth Flagstaff -	50	39	19	2	18	28	W
LUMSDANE HILL -	55	54	38	2	11	50	W
Lundy Isle, St. Ann's Chapel -	51	9	47	4	38	28	W
Lutterworth Steeple -	52	27	20	1	12	1	W
Lyndhurst Steeple -	50	52	23	1	34	19	W
Lynn Old Tower -	52	46	52	0	25	4	E
MADDINGLY -	52	13	21	0	3	46	E
Maenclochog Steeple -	51	54	45	4	46	11	W
MALVERN HILL -	52	6	18	2	19	47	W
Mancha Hill -	51	47	50	4	11	9	W
Manchester, *St. Mary's Spire* - -	53	29	0	2	14	22	W
March Spire -	52	33	25	0	5	30	E
MARGAM DOWN -	51	35	11	3	41	28	W
Mark Steeple -	51	13	37	2	52	39	W
Marros Steeple -	51	45	4	4	34	50	W
MARROS BEACON -	51	44	33	4	35	6	W
Marston Hill, Windmill	54	57	50	1	23	10	W
Marston Moretyne Steeple - -	52	1	37	0	36	46	W
Mary Ansleigh Steeple	50	59	3	3	46	38	W
Mary St Hill, Steeple	51	30	11	3	29	23	W
MAY HILL -	51	53	20	2	26	1	W
May, Isle of, *Lighthouse*	56	11	22	2	32	47	W
Melbourne Steeple -	52	5	10	0	1	11	E
Meldreth Steeple -	52	4	50	0	0	50	E
Melksham Steeple -	51	22	22	2	7	58	W
Merrington Steeple -	54	40	45	1	35	13	W
Michael's St. Mount	50	7	2	5	27	33	W
Michael's St. Penkeville Steeple -	50	14	28	4	59	17	W
Mildenhall Steeple -	52	21	19	0	31	56	E
Milford Steeple -	51	42	43	5	20	13	W
Milford, Lord's, Summer House -	51	47	9	4	51	30	W
Milton Bryant Steeple	51	58	1	0	35	5	W
Minehead Steeple -	51	12	42	3	28	4	W
Missin Steeple -	53	26	49	0	56	19	W
Misterton Steeple -	52	27	40	1	11	27	W
Modbury Spire -	50	20	56	3	52	36	W
Moel Fammau -	53	9	19	3	14	37	W
MOELFRE ISSA -	53	14	52	3	33	35	W
Monance, St. Spire	56	12	24	2	45	37	W
Montacute's Signal Staff	50	57	2	2	42	44	W
MORDINGTON HILL	55	48	39	2	3	45	W
Morebath Steeple -	51	0	57	2	38	1	W
Mote Steeple -	51	53	33	4	47	55	W
Mount Pleasant Gazebo	51	34	16	0	41	25	W
MOW COPT -	53	6	56	2	12	15	W
Mumbles Lighthouse	51	34	0	3	57	20	W
MYNYDD MANE -	51	40	27	3	3	36	W
NASEBY FIELD -	52	24	21	0	58	28	W
Naseby Steeple -	52	23	52	0	59	3	W
Nelson's Tower -	51	51	8	4	6	13	W
Neston Steeple -	53	17	24	3	3	10	W
Nether Broughton Steeple - -	52	49	48	0	57	49	W
Newark Steeple -	53	4	30	0	49	18	W
Newbiggin Spire -	55	11	14	1	29	42	W
Newbury Steeple -	51	24	5	1	19	9	W
NEW INN HILL -	51	58	47	4	11	58	W
NEWMARKET -	52	15	28	0	27	12	E
NEWTON DOWN -	51	44	7	4	53	53	W
Newton Down Signal Staff	51	39	35	3	39	21	W
Newton, St Cyrus Steeple -	50	46	18	3	34	40	W
Newton Summer House	50	56	14	2	36	50	W
Newts Down -	50	53	31	3	26	58	W
Nine Standards -	54	27	21	2	15	57	W
Nipple Rock -	51	43	16	4	52	50	W
Norham Castle -	51	43	29	2	8	30	W
Northam Steeple -	51	2	26	4	11	57	W
North Berwick Law, Staff -	56	3	8	2	42	11	W
North-Hill Steeple -	52	6	18	0	19	18	W
North Meals Spire -	53	39	41	2	57	3	W
NORTH MOLTON RIDGE -	51	4	44	3	43	47	W
North Petherton Steeple	51	5	34	3	0	14	W
North Tawton Steeple	50	48	0	3	52	58	W
NORTHY -	52	22	38	0	8	3	E
Norton Fitzwarren	51	1	41	3	8	8	W
Nottingham Steeple -	52	57	8	1	8	14	W
OGMOOR DOWN -	51	28	1	3	35	26	W
Old Law, Beacon Staff	55	39	42	1	46	57	W
ORME'S HEAD (GREAT)	53	20	2	3	50	21	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Ormskirk Spire -	53	34		52	36		
ORPIT HEIGHTS -	53	3		32	22		
ORWELL -	52	9		0	50		
Orwell Pole -	52	5		0	1		
Orwell Steeple -	52	8	20	0	28		W
Ottery St. Mary -	50	45	13	16	8		W
Over Broughton Steeple	52	49		58	55		W
Pains Hill Spire -	51	19		26	28		W
Palk's Tower -	50	39		34	46		W
Pancras Week Steeple	50	49		24	15		W
PARACOMBE -	51	10		50	49		W
Parkham Steeple -	50	58		18	51		W
Paul's St. Steeple -	50	5		31	37		W
Peel Castle		3		9	41		W
Peel Fell -		16		34	48		W
Penboir Steeple		0		21	23		W
Penbree Steeple		41		48	16		W
Penbury Rock		54		13	45		W
Pencarn		0		2	51		W
Pendennick Signal Staff	50	4		41	32		W
PENDLE HILL -	53	52	11	2	17	21	W
PENGARN MOUNTAIN	52	40	42	4	1	1	W
Penmaen Mawr -	53	15	39	3	55	59	W
Pennigant Hill -	54	10	56	2	14	22	W
Pen Selwood Steeple	1	4	55	2	20	26	W
Pen y Voel -	51	54	36	2	56	3	W
Penrith Beacon -	54	40	37	2	43	59	W
Pershore Steeple	52	6	39	2	4	12	W
Peterborough Cathedral	52	35	40	0	14	45	W
Petrock Stowe Steeple		51	49		5	58	W
Petrox, St. Steeple -		38	27		54	54	W
Pewsey Steeple -		20	18	1	45	34	W
Pillar (The) -	54	29	57	3	16	7	W
Pistle Down Telegraph	50	53	58	1	51	44	W
Pittenweem Spire -	56	12	48	2	43	2	W
PLUMSTONE DOWN		52	5	5	1	19	W
Plungar Steeple -		53	57	0	51	11	W
PLYNLIMMON -	52	28	3	3	46	4	W
PONTOP PIKE -	54	52	19	1	45	35	W
Portlemouth -	50	13	58	3	44	32	W
Portsdown Telegraph	50	51	13	1	3	3	W
Portsmouth's, Lord, House - -	51	13	50	1	21	50	W
Poulton Steeple -	53	50	54	2	58	51	W
Prandergest Steeple -	51	48	28	4	56	40	W
PRECELLY TOP -	51	56	48	4	45	21	W
Prescot Spire -	53	25	45	2	47	44	W
Prestbury Steeple -	51	54	54		2	14	W
Probus, St. Steeple -	50	17	34	4	56		W
Puddington Steeple -	50	53		3	38	48	W
Queensberry Hill -	55	17		3	34	47	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich			
	°	′	″	°	′	″	
RADNOR FOREST	52	16		3	11	16	W
Ramsey Island, highest point -	51	51	43		19	36	W
Ramsey Steeple -	52	27	57		6	9	W
Redmile Spire -	52	54	44		48	42	W
Red Pike -	54	31	24		16	31	W
Retford (East) Spire -	53	23	58	0	54	3	W
RHIW MOUNTAIN -	52	50	0	4	36	48	W
Rhuddlan Steeple -	53	17	30		27	24	W
Rickmansworth Spire	51	38	12		27	55	W
Ripon Church -	54	8	11		30	47	W
Rivel Mountain -	2	58	33	4	24	9	W
RIVINGTON HILL -	53	37	51	2	30	21	W
Roch Castle -	1	50	59	5	2	32	W
RODNEY'S PILLAR -	52	43	23	3	2	1	W
Romsey Steeple -	0	59	26		29	45	W
Rosilly Barrow -	51	34	35		15	51	W
Rossal Point, Landmark	53	55	18		2	20	W
ROYSTON -	52	2	20		3	7	W
Royston Steeple -	52	2	53		1	9	W
RUFFLAW -	55	13	16		45	13	W
RUMBLES MOOR -	53	54	16		49	9	W
Ruscombe Steeple -	51	28	49		50	48	W
Saddle Back -	54	38	30		2	17	W
Salcombe Chapel -	50	14	22		45	15	W
Salisbury Spire -	51	3	56		47	24	W
Sampford -	50	56	41		14	59	W
Sandon Steeple -	51	59	35		4	26	W
Saterleigh Gazebo -	50	59	15		52	48	W
SAYRS LAW -	55	51	1		39	35	W
SCA FELL (LOWER TOP) -	54	27	2	3	12	45	W
SCILLY BANK -	54	33	43	3	32	54	W
Seaton Delaval Summer House -	55	5	2	1	28	42	W
Seend Steeple -	51	20	50	2	4	28	W
Selby Steeple -	53	47	7	1	3	42	W
Sephton Spire -	53	30	19	2	57	36	W
Shaftsbury, *Trinity Steeple*	51	0	24	2	11	25	W
Sherborne Steeple		56	50	2	30	26	W
Sherf Hill, Beacon Staff	54	52	59	1	34	23	W
Shields, North, Steeple	55	0	48	1	26	27	W
Shiplake Steeple -	51	29	56	0	53	27	W
Shottesbrook Spire -	51	29	13	0	47	6	W
Shrewsbury, *St. Chads Steeple* -		42	28	2	44	53	W
Shuckburgh Steeple -		15	10	1	16	3	W
SHUNNOR FELL -		22	21	2	13	31	W
Sibertoft Steeple -		26	22	0	59	38	W
SIMONSIDE HILL -		17	5	1	57	16	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
SKIDDAW -	54	39	12	3	8	9	W
Small's Lighthouse -	51	43	18	5	58	34	W
SNEA FELL -	54	17	28	4	26	46	W
SNOWDON -	53	4	9	4	3	38	W
Somersham Steeple -	52	23	46	0	0	0	
South Molton Steeple	51	1	8	3	49	17	W
Southerness Point Landmark - - -	54	52	30	3	34	53	W
South Petherton -	50	56	54	2	47	54	W
Southa Hill Pile -	55	51	1	2	45	6	W
SPAN HEAD -	51	7	1	3	47	55	W
Spreyton Steeple -	50	45	21	3	50	4	W
STAINCROSS HEIGHTS	53	35	32	1	30	14	W
Stalling Down Signal Staff -	51	27	19	3	24	24	W
Standish Spire -	53	35	17	2	39	4	W
Stanmore Station -	51	37	17	0	20	38	W
Stanstead Monument	50	52	47	0	53	36	W
Staple Hill -	50	56	43	3	4	16	W
Staples, West, Lighthouse -	55	37	11	1	38	51	W
Staples, East, Lighthouse -	55	38	9	1	37	5	W
Staples, Building on the	55	37	8	1	38	54	W
STATHERN POINT -	52	52	33	0	49	50	W
Stathern Steeple -	52	52	17	0	50	55	W
Steeple Ashton	51	18	49	2	7	39	W
Steinton Steeple -	51	43	51	4	59	50	W
STOW HILL -	52	21	53	2	59	31	W
Stow, Building on Hill near -	55	34	50	2	53	24	W
Stretham Steeple -	52	21	41	0	13	48	E
Sturminster Steeple -	50	55	31	2	17	39	W
Stutland Signal Staff	50	37	57	1	55	52	W
Sunderland Lighthouse	54	55	12	1	21	16	W
Sunderland Point Windmill -	55	34	45	1	37	56	W
SUTTON ASHFIELD	53	0	52	1	12	58	W
Sutton Spire -	53	7	36	1	42	38	W
Sutton Steeple - -	52	24	14	0	8	6	E
Swaffham Spire -	52	15	35	0	18	39	E
Swansea Castle -	51	37	13	3	55	32	W
SYMMOND'S HALL -	51	39	48	2	17	59	W
Taliaris Pigeon House	51	55	54	3	57	26	W
TALBARN -	52	13	8	4	7	8	W
Tamerton North Steeple	50	45	5	4	22	44	W
Tame Steeple -	51	45	3	0	58	38	W
Taunton, *St. Mary's Steeple* -	51	0	59	3	5	22	W
Tenby Spire -	51	40	20	4	40	52	W
Tewkesbury Steeple	51	59	27	2	9	7	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Thelbridge Steeple -	50	53	47	3	42	44	W
Therfield Steeple -	52	0	57	0	3	20	W
Thorne Falcon Steeple	51	0	38	3	0	43	W
Thorne Steeple -	53	36	45	0	56	8	W
Thorney Abbey -	52	38	39	0	6	29	W
TILTON ON THE HILL	52	38	46	0	51	45	W
Tilton on the Hill Spire	52	38	40	0	53	53	W
Titterdieu Signal Staff	50	3	19	5	33	30	W
Toot Hill Telegraph	50	57	56	1	27	6	W
Totness Steeple -	50	25	57	3	40	29	W
Town Hill Telegraph	50	55	24	1	19	38	W
TRECASTLE BEACON	51	52	58	3	41	35	W
Tre Carn Issa -	51	50	5	3	53	44	W
Trechrig Mountain -	51	53	25	3	52	31	W
TREGARRON DOWN	52	14	3	3	48	53	W
Tregonning Signal Staff	50	6	59	5	20	1	W
TRELLEG BEACON -	51	44	42	2	41	51	W
Trelleg Steeple -	51	44	47	2	42	53	W
Trowbridge Spire -	51	19	8	2	11	57	W
Trumpington Steeple	52	10	45	0	6	58	W
Tuddington Steeple -	51	56	59	0	39	55	W
Twinell's St. Steeple -	51	38	24	4	56	44	W
Twymbarlum Mountain	51	37	41	3	4	55	W
Tynemouth Lighthouse	55	1	21	1	24	31	W
Uffculme Steeple -	50	54	15	3	19	16	W
Ugborough Spire -	50	23	13	3	50	53	W
Wakefield Spire -	53	41	2	1	29	24	W
Wallaton Cross -	50	19	27	3	41	30	W
Waller's Pleasure House	53	49	41	2	22	14	W
Waltham Spire -	52	49	5	0	48	21	W
Warboys Spire -	52	24	58	0	5	11	W
Warbstow -	50	41	17	4	32	5	W
Wardour Castle -	51	2	32	2	5	45	W
Wareham Steeple -	50	41	5	2	5	56	W
Warleigh Steeple -	50	59	20	3	55	19	W
Warkworth Castle -	55	20	54	1	36	14	W
Warren Bank -	52	5	49	4	36	18	W
Warren Spire -	51	38	20	4	58	13	W
Warren Signal Staff -	50	53	17	2	50	4	W
Warrington Steeple -	53	23	30	2	33	11	W
WATER CRAG -	54	26	19	2	6	8	W
Watford Spire -	51	39	16	0	23	36	W
Wavertree Steeple -	53	23	43	2	54	17	W
WEAVER HILL -	53	0	55	1	51	10	W
Wednesbury Spire -	52	33	23	2	0	44	W
Welford Steeple -	52	25	5	1	3	13	W
Wellingore Steeple -	53	5	53	0	31	52	W
Wellington Steeple -	50	58	54	3	12	49	W
West Allington Steeple	50	16	55	3	46	45	W
West Hatch Steeple -	50	59	5	3	0	30	W
West Knoyle Steeple	51	5	39	2	11	36	W

Names of stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″				
West Mouse -	3	25	6	4	32	13	W
West Morchard Steeple	0	51	15	3	43	52	W
Westerton Folly -	4	40	32	1	37	16	W
Whatley Spire -	1	13	39	2	22	23	W
Whatton Spire -	2	57	1	0	53	15	W
WHERNSIDE (Great in Kettlewell Dale) -	4	9	44	1	59	24	W
WHERNSIDE (in Ingleton Fells) -	4	13	45	2	23	35	W
Whin Fell -	5	21	3	3	15	4	W
Whitchurch Steeple -	51	52	5	0	49	49	W
Whitehaven, Windmil near -	54	32	50	3	34	56	W
Whittlesea Spire -	52	34	36	0	7	46	W
Wickham Lodge Telegraph -	50	54	2	1	9	1	W
Widworthy -	50	47		3	6	10	W
Willen Steeple -	52	2	1	0	39	57	W
WILTON BEACON -	53	59	54	0	45	29	W
Wimborne Steeple -	50	47	5	1	58	52	W
Wincanton Steeple -	51	3	2	2	24	16	W
Winchester Cathedral	51	3	4	1	18	26	W
Winckley Steeple -	50	51	2	3	55	48	W
Wing Steeple -	51	53	4	0	43	3	W
Wingrave Steeple -	51	51	4	0	44	8	W
Winslow Steeple -	51	56	34	0	52	40	W
Winwick Spire -	53	25	53		35	16	W
Wisbich Steeple -	52	41	23		10	15	E
WISP HILL -	55	17	13		57	22	W
Witheridge -	50	55	6		41	27	W
WITTLE HILL -	53	40	4		15	26	W
Wiveliscombe Steeple	51	2	30	3	17	52	W
Woburn Abbey -	51	54	47		35	42	W
Woking Monument	51	18	30		31	55	W
Woodbury Signal Staff	50	37	22		20	17	W
Woolavington Steeple	51	10	16		55	24	W
Woolford Lodge -	50	49	1		12	15	W
Woolverhampton Spire	52	34	54		7	10	W
WORDESLOW HILL -	54	51	3		25	6	W
Workington Chapel -	54	38	34	3	33	30	W
Worm's Head -		33	56		18	56	W
WREKIN (THE) -	52	40	11		31	30	W
Yartcombe -		52	22	3	4	34	W
Yelling Spire -	52	15	16	0	9	19	W
Yeovil Steeple -	50	56	34		37		W
Yetminster Steeple -	50	53	40		34	6	W
YNALIOG MOUNTAIN	52	48	41		43	30	W
Ynys Gadarn -	53	22	9		14	15	W
Ynystraeth Bychan -	53	21	32		12	35	W
York Minster -	53	57	48		4	34	W
York Spire -	53	57	30		4	28	W
Zeal Monachorum -	50	49			48	23	W

London: Printed by W. Bulmer and Co.
Cleveland-row, St. James's.

ERRATA.

Page 89, *Triangle* 17, Sides and Angles inverted.
—— 135, *Triangle* 213, *for* 148740, 1 *read* 168740,1.
—— 160, and 161, *for* Puncheston, *read* Castle Baith.
—— 170 *Triangle* 16, *put* 58 3 4 a line lower.
—— 171, *Triangle* 15, *for* 37030, *read* 57030.
—— 174, *Triangle* 14, invert the sides.
—— 175, *Triangle* 12, *for* 44769, *read* 41799.
—— 177, *Triangle* 17, *for* 50136, *read* 50178.
—— 178, *Triangle* 7, *for* 255855 *read* 254680, *and Triangle* 14, *for* 154994, *read* 158603
—— 189, *for* Plate 2, *read* Plates 2 and 3.
—— 283, *Triangle* 7, *for* 46632, *read* 46525.
—— 305, *line* 10, *for* Dundry, *read* Dunkery; also Dundry Beacon, 790.
—— 339, *line* 23, *for* 14129 S, *read* 14129 N.
—— 346, *line* 4, *for* 118350, *read* 11835.
—— 348, *line* 21, *for* 44466 W, *read* 44466 E.
—— 360, *line* 4, *for* 883329, *read* 88329.
In the pagination of Signature T t, *for* 349, &c., *read* 321, &c.